

# THE AMERICAN School Board Journal

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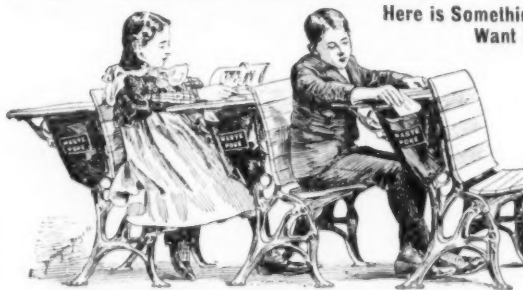
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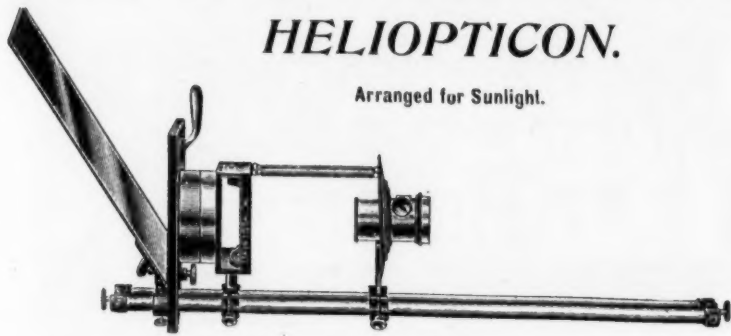
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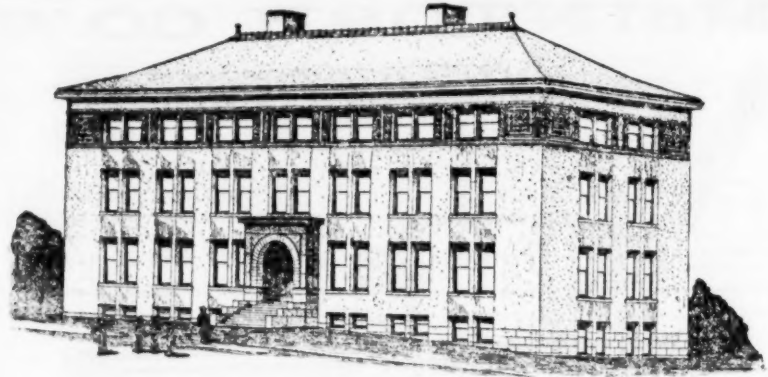


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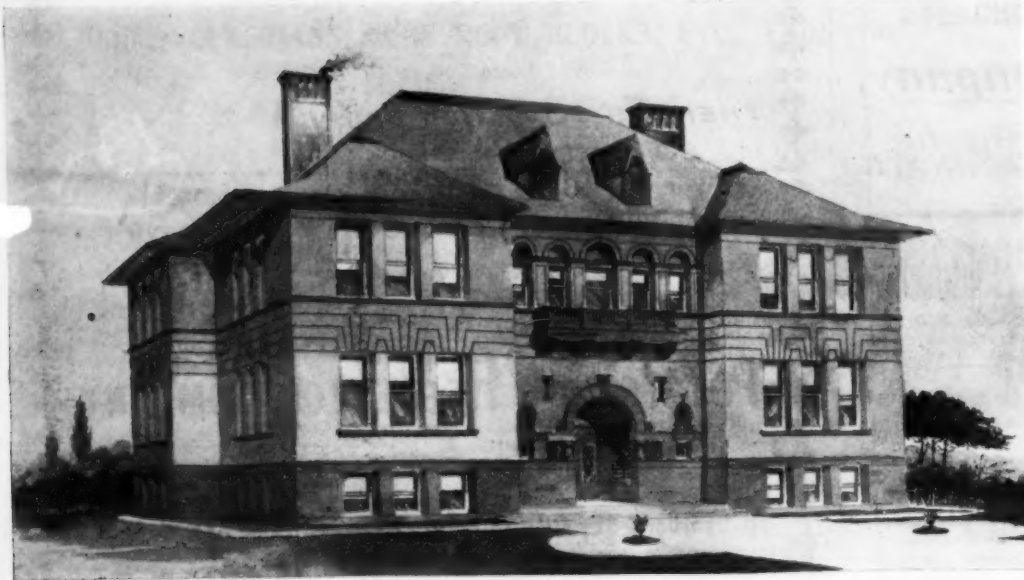


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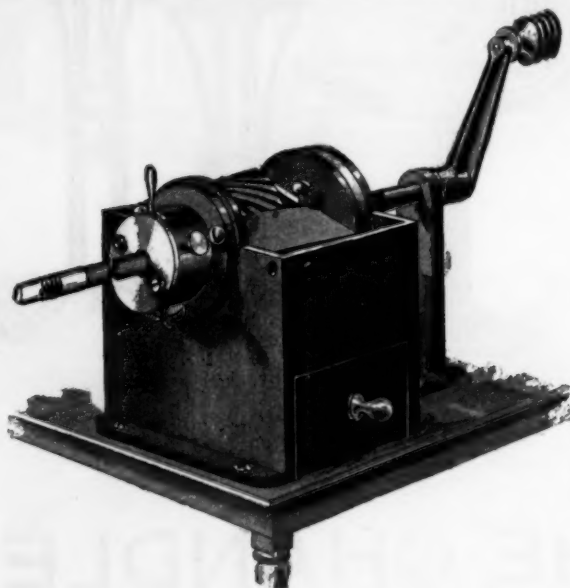
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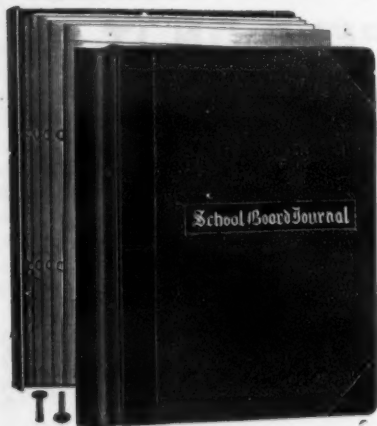
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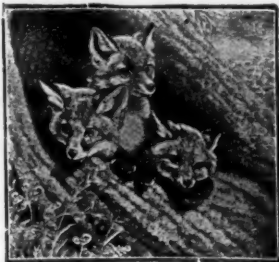
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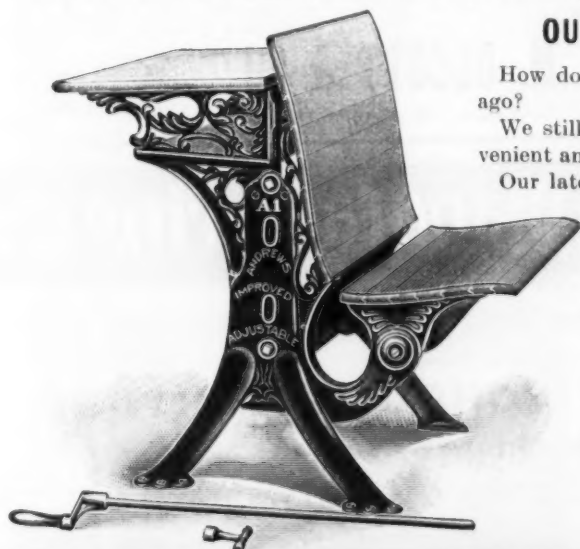
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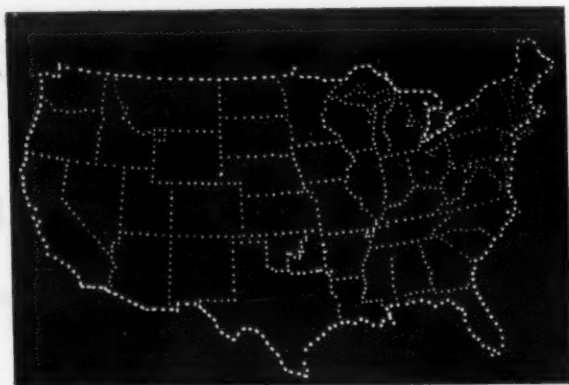
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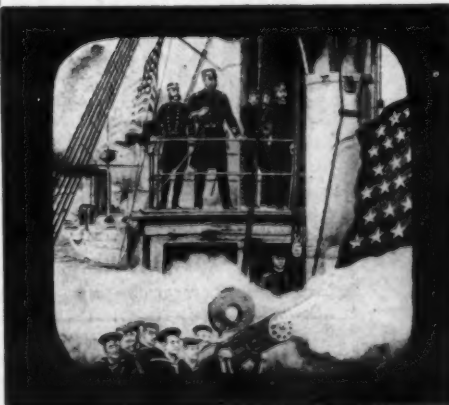
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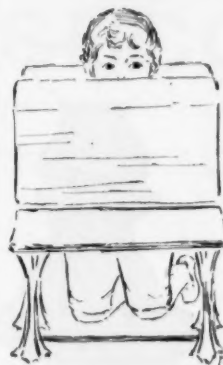
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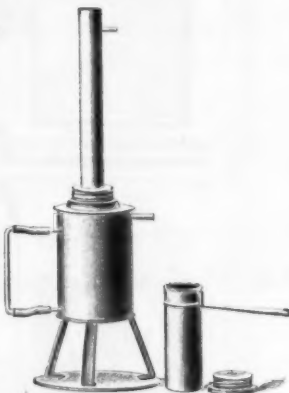
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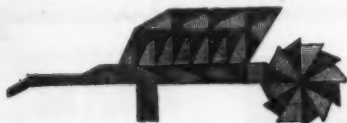


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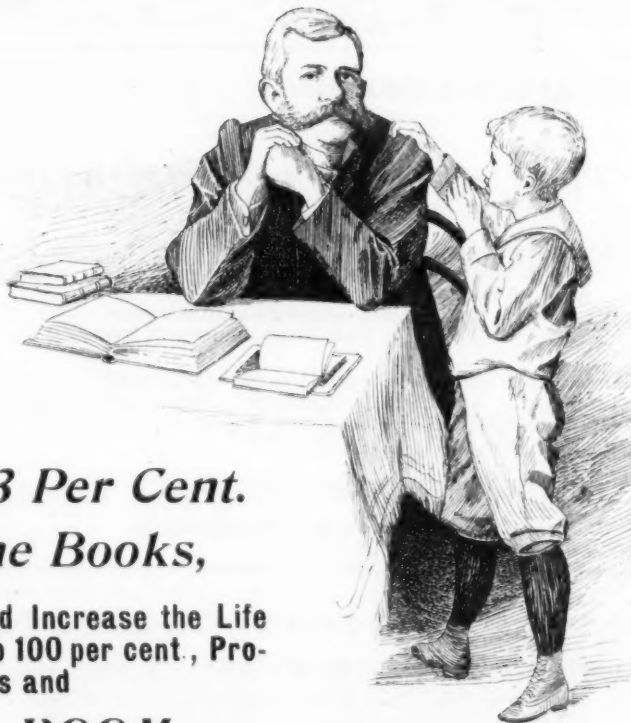
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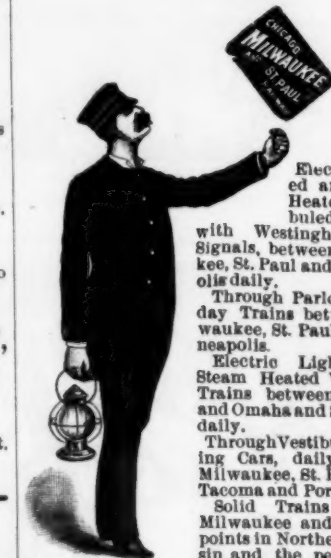
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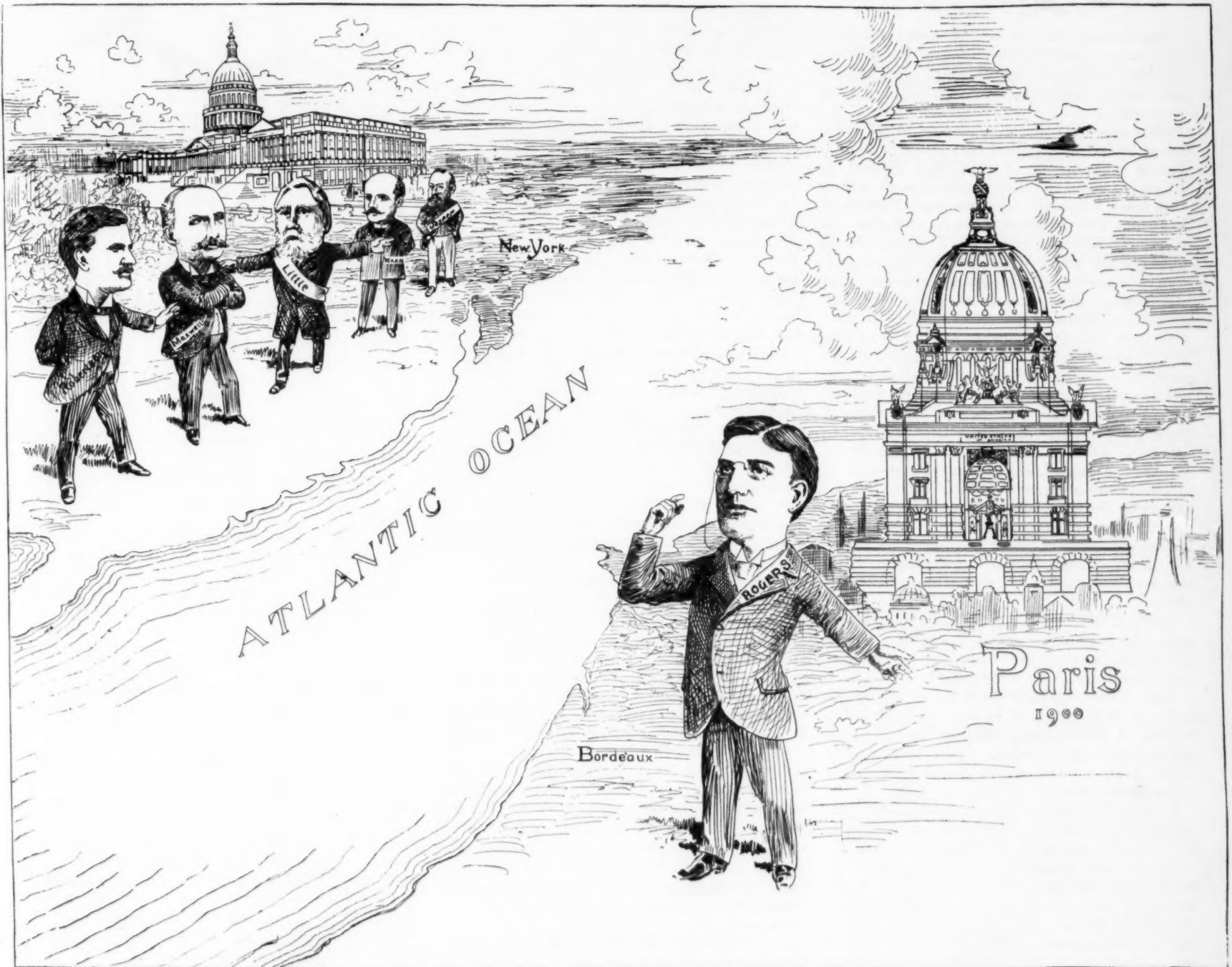


# THE AMERICAN School Board Journal

VOL. XIX. No. 4.

MILWAUKEE, OCTOBER, 1899.

SUBSCRIPTION PRICE  
\$1 PER YEAR.



## PREFER TO REMAIN AT HOME.

HOWARD J. ROGERS (U. S. Director of Education, Paris Exposition): "Gentlemen! I invite you most cordially to attend the Paris Exposition. Bring your educational exhibits with you!"

NEW YORK SCHOOL AUTHORITIES: "No! Mr. Rogers, we respectfully decline the invitation. Many thanks!"

The action taken by the board of education of Greater New York, in refraining from making an exhibit at the Paris Exposition, was in all probability not prompted by the decision of the French court-martial in the Dreyfus matter. At least there is no evidence at this time to warrant the statement that the board was so influenced. There will be no exhibit from the Greater New York schools—and that ends the matter.

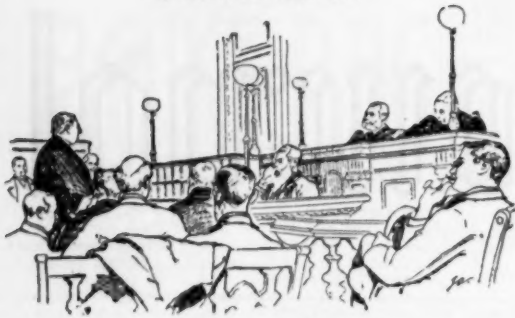
The Boston school board, however, took action last month by adopting the following order:

"Ordered, that work in preparation for the school exhibit at the Paris Exposition be suspended as far as possible, and that the committee on the Paris Exposition be requested to consider and report upon the advisability of rescinding the votes of the board which provided for the exhibit."

This by no means determines finally whether

Boston will present its school exhibit or not, but it denotes the prevailing sentiment in that as well as other school bodies. In fact, it may be assumed that Boston will send its exhibit to Paris in due time. Much of the enthusiasm, however, which had been aroused by Howard J. Rogers, the United States director of educational exhibits, has been considerably dampened. He will have to work harder than ever before to regain lost ground, which will take some weeks.

## School Law.



Norristown, Pa. A bill in equity has been filed in court praying for an injunction restraining the Bridgeport school board from paying the superintendent of schools a salary during vacation.

Illinois. By a recent enactment of the legislature it is now required that cities in Illinois having a population of more than 100,000 inhabitants shall establish truant schools within two years. In cities of more than 25,000 and less than 100,000 people it is enacted that the board of education may open a truant school, provided the people have approved the proposition by majority vote at a general election.

Colorado. The compulsory educational law passed by the last legislature requires parents, guardians and other persons having in charge any child between 8 and 14 years, to send such child to a public, private or parochial school, not less than twenty weeks, at least ten weeks of which, commencing with the first four weeks of the school year, shall be consecutive. Provisions are made where the child is in bad bodily or mental health and where home instruction is given. Children not attending school as required by the law shall be deemed juvenile disorderly persons. To enforce the law school directors may appoint truant officers. They prosecute their charges in the county courts. The penalty for violation is a fine of not more than \$50.

Indiana. State Supt. F. L. Jones has decided that after a common council elects members of the school board it no longer has any control over the actions of the school board.

New York. Colored children in the state, under a decision made by Justice Wilmot M. Smith, of the supreme court of Long Island, are barred from attending public schools with white children where boards of education establish separate schools and maintain them.

Urbana, Ill. Judge Wright has declared unconstitutional the law to compel school officers to fly the flag of the United States of stated dimensions each school day, weather permitting, from a flag staff erected on the roof of the highest school building under their control. Judge Wright set the act aside because in his opinion the legislature had no authority to enact such a law. Omission to fly the flag was not detrimental to the health of the children, nor injurious to their morals, nor was it necessary that the flag should be raised upon the school buildings as a police regulation to preserve the peace and quiet of any neighborhood.

## New Rules and Regulations.

Seattle, Wash. A rule requires that on entering school a pupil must exhibit a vaccination scar not more than five years old, or a certificate from the family physician that the pupil has been vaccinated within the past thirty days.

San Francisco, Cal. A regulation of the school board declares that no married woman can hold a teacher's position, or that a female teacher single can take to herself a husband and all the irresponsibilities of married life and continue to teach.

Minnesota. The state board of health has

made vaccination compulsory with all pupils attending the public schools of the state.

Auburn, N. J. The following is an established rule of the board and it is strictly observed: "No member shall speak at any meeting more than twice on the same question, nor more than fifteen minutes at a time, except by consent of the board."

Lower Pottsgrove, Pa. The board has established a rule that the lady teachers must not marry during the school term.

Watertown, Mass. The board has issued an order making vaccination of pupils necessary to enter school.

Huntington, L. I., N. Y. The board has ordered that all fees for tuition from non-resident pupils must be paid strictly in advance.

Auburn, N. Y. A rule of the board reads: "All secret organization of pupils in the schools are prohibited, and all organizations of any kind shall, at all times, be subject to the control and direction of the teachers of the school in which such organizations may exist."

Springfield, Ill. The board of education requires that the school janitors, at the daily close of school, shall sweep every school room, hall and stairway, and upon the following morning shall thoroughly ventilate each room and remove all dust from the tables, desks, seats, chairs, window sills, charts, pictures, banisters, etc., and shall keep walls, ceilings, windows and shutters free from cobwebs and dust. They must, at least once a month, scrub the floors, platforms and stairways, and at least three times during the year, before the opening of each term, wash all windows and inside woodwork.

Springfield, Ill. No teacher, pupil or janitor is permitted to use tobacco about the school premises.

Lansing, Mich. Under the new by-laws the board of education will meet twice each month instead of once—on the second and fourth Mondays of the month.

Auburn, N. Y. The following is one of the board's established rules: "All committees to whom any matter shall be referred, shall report thereon at the first meeting after such reference, unless further time be allowed by the board. At the time of making their report, they shall return any communication, memorial, account, resolution or other paper relating to the subject referred to them, that it may be filed by the secretary."

Springfield, Ill. In the board of education's code governing teachers appears the following one: "It is particularly enjoined upon the teachers to regard the moral and social culture of their pupils as not less important than their mental discipline. They must not tolerate in them falsehood, profanity, cruelty or any other form of vice. By example and precept they shall endeavor to form them to habits of social refinement, forbidding the use of indelicate, coarse and ungrammatical language."

## Among Boards of Education.

The Chicago schools opened with 245,000 pupils, placed in 322 schools; Greater New York, with 400,000 pupils.

Niles, Mich. F. C. Schmidt, member of the school board, says that parents of school children are requested to send a chair along with the children, as there is a great scarcity of seats at the Central school building.

Pittsburgh, Pa. The Eighteenth ward school board got into a row about a beer bill. It seems that beer and liquors were consumed at a recent school picnic. One of the board members ordered the material under the impression that the board would foot the bill. The board refused.

The Birmingham, Ala., board of education



HON. P. A. BERGEROT,  
President Board of Education,  
San Francisco, Cal.

has for some years exacted a monthly fee of \$3 from high school students. This has now been reduced to \$2. There is a movement now on foot to abolish the fee entirely.

"I'm married and suppose I must resign. But I'd rather do that than give up my husband." So said a teacher last month to the Queens Borough school board of Greater New York, which a year ago passed a rule compelling all teachers who married to resign. The board decided that the rule should not be enforced in her case. Now other teachers want the rule abolished as far as it concerns them, too.

John D. Rockefeller has recently subscribed \$250,000 to the Brown university endowment fund.

Miss Christine Sullivan, for many years superintendent of drawing in the Cincinnati schools, died last month.

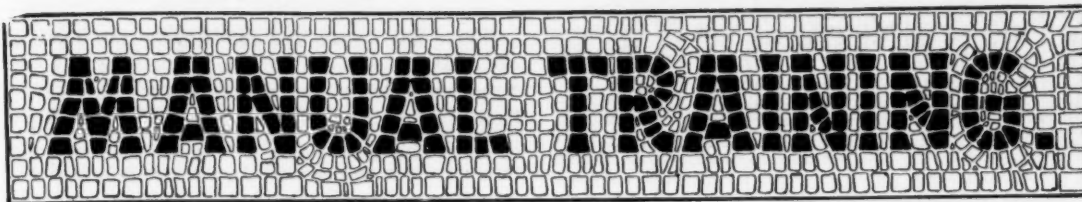
President J. M. Howell of the Dallas, Tex., school board, in his annual address, said, among other things, the following: "The public school system recognizes no caste, no class, no political or sectarian standard. All classes, all phases of thought, are represented and the teacher generally succeeds in harmonizing these various elements and bringing them together on a broad basis of mutual respect, love of humanity and a high order of patriotism. If the accomplishment of these results can be fairly claimed for the public school system every man, woman and child should be its friends and do all they can to increase its usefulness and make its influence felt in every department of human effort and progress. The public schools deserve the support of all classes, not only on moral and intellectual grounds, but also on the grounds of a safe and sensible financial investment by the community, the city or the state."



School Director—Why are all the doors and windows in the school house open?

School Marm—Because school is closed today.





It is interesting and significant to observe that manual training—teaching of pupils in the schools to correlate the work of eye, hand and brain—is making its way into an ever-widening circle of communities.

Manual training is being recognized as an innovation that means the solving of a problem that has long perplexed our most distinguished educators. It is not intended that by introducing manual training in the schools boys should become craftsmen, though it would aid to ascertain the bent of their manual capabilities; but rather that they be given useful intelligence of mechanics.

Experience has proven that manual training gives boys a better and a more practical understanding of what they read in the books than they possibly could get in any other way. By going into the workshop and seeing the practical application of what they learn in the school room, they learn something that is of practical value to them. It has a most beneficent influence upon all youths who come within its reach; stimulates interest in school work; directs youthful zeal and energy into wholesome and helpful channels and away from vicious ones; improves school attendance; cultivates manliness, truthfulness; accuracy and thrift. It is a self-evident fact that the boy or girl who has had the training of the eye, hand and brain is much better equipped for the actual work of life than is the boy or girl who did not receive such training.

Clay modeling may profitably be carried on from the kindergarten through the high school. The school founded by Felix Adler in New York City will furnish points in this direction.

Cutting or knife work, as it is technically called, has been successfully done in the schools of Springfield, Mass.

The sloyd system has proved acceptable even with children of the lowest grades, as is shown in the schools of Brookline, Mass.

Color work has been effectually introduced into the schools of Springfield, Mass.

Drawing, both illustrative and technical, free-hand and mechanical, commands a first place in the manual work of all grades.

Geometrical forms may be profitably constructed by children in all grades, as may be seen in some of the grammar schools of New York City.

Los Angeles, Cal. The board of education has extended sloyd work to the fifth grade, but eliminated it from the ninth grade and high school courses. The girls are deprived of sloyd, but are given training in cooking and sewing as a fair exchange.

The per capita cost of manual training in a well-equipped high school, based on the average attendance, is estimated to be about \$50. In Columbus, O., the computation made a few years ago was \$48.35. In St. Louis, Mo., last year it was \$66.65. In Chicago, Ill., in the several high schools it was from \$44.62 to \$68.25. In Toledo, O., it was \$47.50.

Milwaukee, Wis. Supt. H. O. R. Siefert is of the opinion that manual training should be open to all students in the schools who wish to take the course, instead of being confined, as at present, to those who have a general average in their other studies of 85 per cent.

Portland, Me. Manual training here has proven a complete success. Between 650 and 700 boys were benefited by this training last year.

Workingmen's unions approve of the introduction of manual training in the schools. They are not jealous of the invasion of their trade by boys that are taught such training. They realize that the discipline given is as valuable to a young lawyer or doctor as to a machinist or carpenter, as it tends toward a symmetrical development of body and mind.

Chicago, Ill. For ten years past from fifty to sixty young men annually have graduated in full literary and technical courses from the training school.

St. Louis, Mo. It is contemplated to inaugurate manual training as a permanent and well-grounded feature of the public school system. The board of education is fully convinced that manual training promises the best results as an important phase of modern public school teaching. The sole difficulty suggested is that of the financial requirements attendant upon the innovation.

Waltham, Mass. Mechanical drawing has been introduced in the high school and the venture is meeting with marked success.

The Eastern Manual Training Association, at its recent annual convention held in New York City, elected the following officers: President, Robert C. Bates, head of the training department in the Elmira reformatory; vice-president, Frank M. Leavitt, supervisor of manual training in the Boston public schools; secretary and treasurer, Walter J. Kenyon, of the state normal school, Lowell, Mass.; executive committee, W. E. Roberts, supervisor of manual training in the Cleveland public schools; Gustaf Larsson, principal of the sloyd training school, Boston; Dr. James Haney, supervisor of manual training in the public schools of the Borough of Manhattan and the Bronx. The next convention will be held in Cleveland, O.

From the writings of an Eastern woman on manual training we cull the following paragraph: Far back in the history of Sweden, we learn that the youth of that country were carefully and thoroughly taught by their parents the early use of their hands in making useful articles, and from generation to generation was handed down this skill in handicraft. Later, from various reasons, these useful arts were neglected, and also during this period was noted a decadence in the mental and moral characteristics of the people as well as in the physical.

#### Benefits of Manual Training.

In his able work on "Practical Education," Arthur MacArthur, of Washington, D. C., says: "No discussion regarding the useful pursuits of life can take place at present without an emphatic recognition of the claims of industrial education."

"When we consider that all labor is now directed by knowledge, and must continue to be so still more in the future, we may be sensible of some surprise at the little effort made in our educational system to meet this want. It will be generally admitted that an educated person should gain assistance from his studies when he comes to earn a livelihood. But our boys and girls for the most part have no occupation and are fit for none when they leave school. They know enough, but can do nothing; they have learning, but no capacity. The industrial pursuits of life, upon which the whole fabric of society reposes, are ignored. Education is bestowed upon the mind while all the executive functions of the physical system are neglected. These executive functions are certainly as important as a knowledge of geography, spelling, defining and grammar, of which the details are so often without interest, and do not in any way develop the faculties nor deal with the realities of life; nor do such studies enable the pupils to speak of anything belonging to any calling, pursuit, or manufactured article on earth."

"It would seem from our system of public instruction that there existed no such pursuits as those by which men can earn a living, no employment which requires manual skill of any kind, no such things in the world as machines and tools and applied science except as mere figures of speech."

#### Cost of Manual Training.

Prof. George A. Robbins, of Chicago, visited Grand Rapids, Mich., and presented what is considered a feasible plan for the introduction of manual training into the schools of that city. It will doubtless prove of interest to those who advocate the introduction of manual training into graded schools:

1. The cost not to exceed \$5,000 per year.
2. General distribution of this fund—
  - a. For wood work ..... \$2,000
  - b. For domestic economy ..... 2,500
  - c. For material for lower grades ..... 500
3. Special distribution of manual training fund—
  - a. Salary, one teacher ..... \$1,000
  - b. Equipment (no machinery needed) ..... 350
  - c. Drawing equipment and material ..... 200
  - d. Stock (lumber, etc.) ..... 350
  - e. Contingent fund ..... 100
4. Duties of manual training teacher—
  - a. To instruct classes in wood work.
  - b. To instruct 182 teachers (of grades 1 to 4 inclusive) in construction work in paper, leather, thin wood, etc.
5. Elements of course in wood work—
  - a. Preparatory, in which the use and care of tools is the objective (planing, sawing, grinding, etc.).
  - b. Constructive. Working drawings and household articles of value.
  - c. Original design and construction.
6. Number of pupils in wood work.
  - a. Fifteen classes per week, 20 boys in a class, 300 boys.
  - m. From high school, 150; from grades 7 and 8, 150.

If wood work is given to grade pupils only, then 150 sixth grade pupils could take wood work. Girls saw while boys are absent from room.
7. Length of course, two years.
8. Products—Breadboards, sleds, bracket shelves, foot-stools, wall pockets, etc.
 

Nothing is to be sold. Each pupil owns what he makes and carries it home.
9. Special distribution of domestic economy fund—
  - a. Cooking—\$1,000 devoted to—
    - (m) Salary, one teacher ..... \$650
    - (n) Equipment and material ..... 300
    - (o) Contingent fund ..... 50
10. Duties of cooking teacher—
  - a. To instruct classes in cooking.
  - b. To lecture teachers on that subject.
11. Elements of course in cooking—
  - a. Use and care of cooking utensils, with economic care of fire and fuel.
  - b. Plain cooking, boiling, roasting, stewing, frying.
  - c. Preparation of full meal, desserts, etc.
  - d. Hygienic and sanitary conditions of the house.
12. Number of pupils in cooking, 450 girls, from the same grades to which the boys belong.
13. Length of course, two years.
14. Products—Good meals and better health in the homes.
  - b. Sewing—\$1,500 devoted to—
    - (x) Salaries, two teachers ..... \$1,200
    - (y) Equipments and materials ..... 200
    - (z) Contingent fund ..... 100
15. Duties of sewing teachers—
  - a. To instruct classes in sewing.
  - b. To instruct grade teachers of these classes that they may be able to give instructions.
16. Elements of course in sewing—
  - a. Preparatory, hemming, hemstitching, felling, basting, darning, patching, etc.
  - b. Needlework, plain and ornamental.
  - c. Original design and construction.
17. Number of pupils in sewing, 1,500 girls.
18. Length of course, two years.
19. Products—Towels, aprons, hoods and various articles of clothing.
20. Distribution of construction work fund—
  - a. Material for grades 1, 2, 3, 4 ..... \$500 (Jute paper, pasteboard, paste, scissors, rulers, pencils, thin lumber, etc.)
  - b. Number of pupils engaged, 237.
  - c. Length of course, through several grades.
  - d. Products—Toys, envelopes, pencil boxes, card cases, tents, canoes, etc., in accordance with kindergarten principles.
21. Mental Product—The power to put thought into the work of the hands, rendering both more pleasurable and profitable.
22. Average cost per pupil, 43 1-3 cents.



# FOR BUSY SUPERINTENDENTS



## Night Schools.

Detroit, Mich. School Inspector Geutsch does not believe in either the moral or legal righteousness of regular appointed day school teachers teaching in the night schools. He favors putting a stop to such selfishness.

London, Eng. One of the most important changes contemplated by the school board in its evening schools is the establishment of commercial schools in conjunction with the Chamber of Commerce.

Newark, N. J. Last season a number of the day school teachers studied German and Spanish at the night schools.

West Carrollton, O. Stenography and telegraphy was taught in the night school last year.

Portland, Ore. In the night schools special classes for foreigners who desire to learn the English language are formed.

Detroit, Mich. School Inspector Hall thinks that the newsboys' night school should be abolished because it keeps small boys on the down town streets late at night. "There is no reason," he says, "why they should not go to the night schools nearest to their own homes."

Toledo, O. Pupils attending the night schools must purchase their own books and supplies, which they did not have to do heretofore.

Allegheny, Pa. A night school is opened each year in every ward. Sessions are held four nights a week. The total enrollment last year exceeded 500 pupils.

Danbury, Conn. The state educational department exempted the board of education from maintaining a night school.

Providence, R. I. The salaries received by the night school teachers per night are as follows: Principals, \$5; other teachers, from \$2 to \$3.

Cambridge, Mass. The night school principals receive \$5 and the other teachers \$2.50 an evening.

Boston, Mass. The regular teachers in the evening high school receive \$4 and the principal \$10 an evening.

Springfield, Mass. The board of education makes provision each year for five months evening school. Three sessions a week are held. The principals of these schools receive \$5 per evening. Other teachers received from \$2 to \$3.50.

New York, N. Y. Several night schools ex-

clusively for young women were opened last year. The course of study consisted of bookkeeping, stenography, cooking, dressmaking, English, writing and arithmetic.

Brooklyn, N. Y. There will be held this season ninety evening school sessions on Monday, Tuesday, Wednesday, Thursday and Friday nights of each week.

San Francisco. The Gas and Electric Co. has decided to furnish no more light to the school department. The company was forced to take this action because of the failure of the city to pay for the light furnished during the past four months. Nearly \$7,000 is now due the corporation. This will close all the night schools.

Warwick, R. I. A resolution adopted provides that the salaries of the teachers of the evening schools shall not exceed the sum of \$1.50 per evening.

Union Hill, N. J. Women teachers are not employed in the night schools.

San Francisco, Cal. A rule in vogue provides for fining evening school teachers 50 cents for each case of tardiness.

Portland, Me. Those attending the night schools range in age from 15 to 50 years.

Olneyville, R. I. A year ago the school authorities dropped the studies of cooking and sewing in the evening schools in order to curtail expense.

Worcester, Mass. All teachers in the evening schools, except principals, high school teachers and special teachers, receive, when elected, the minimum salary of \$1 per evening. After three years of satisfactory service, the salary is advanced 25 cents per evening, and after two years of further satisfactory service an additional 25 cents per evening is paid. The maximum salary is fixed at \$1.50 per evening.

Buffalo, N. Y. A corps of forty teachers had charge of the night schools last winter.

New York, N. Y. The following subjects are taught in the evening schools: Plain sewing, dressmaking, phonography, bookkeeping, business writing and correspondence, commercial geography, United States history, English and foreign reading, spelling, drawing, and penmanship.

Los Angeles, Cal. A commercial course has been added to the night school curriculum.

Baltimore, Md. A special night school for the foreign-born has been established.

Dallas, Tex. Efforts have been made several times to introduce a night session feature in the schools without success.

Dayton, O. The average cost per pupil who attended the night school last winter was \$13.29.

Springfield, Mass. The following studies are taught in the evening schools: Stenography, bookkeeping, typewriting, arithmetic, commercial, mechanics, algebra, geometry, French, German, English, rhetoric, American literature, Latin, Greek, biology, general history, American history, civil government, physics, chemistry, astronomy, physical geography, physiology. A class of Italians are taught by an educated Italian; the Jewish class have a teacher of their own nationality, and efforts are being made to secure a competent Swedish teacher for a class of Swedes. As an aid in securing regular attendance certificates signed by the principal and by the superintendent of schools will be given those students who are present 70 per cent. of the entire number of sessions.

## Non-Resident Tuition.

There has been a decided upward tendency in the rates charged for non-resident pupils. School boards in several sections of the country have made a decided increase in their prices—more particularly for high school tuition. In many instances, heretofore, only a nominal fee was charged, and this was done more for the regulating attendance and guarding against the abuse of a privilege than to gain a revenue.

A later tendency has been to charge non-resident students an exact pro rata of what it costs to maintain the schools. This is, no doubt, an equitable basis upon which tuition rates may be fixed. The highest rate exacted, which has come to our knowledge, obtains at Oak Park, Ill. The school board here recently fixed its high school tuition for non-residents at \$75 a year. The board holds that it costs just \$75 to educate each pupil; and that besides that it has as many high school students as it cares to take. Austin, a neighboring village, fixed its rate at \$50 per annum.

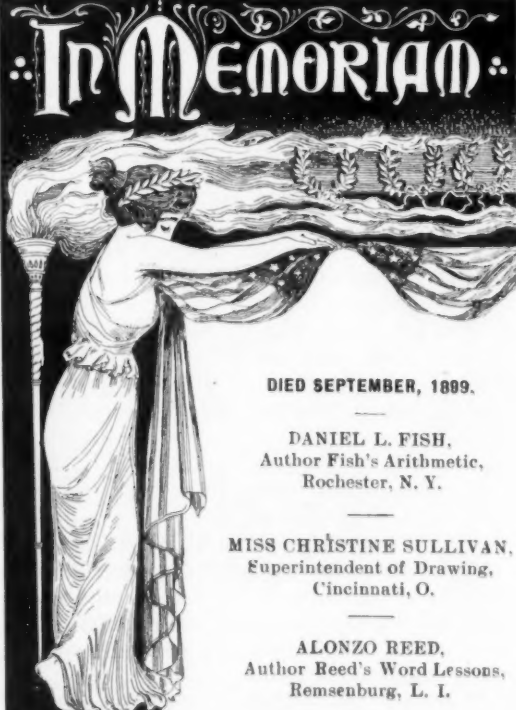
Jersey City, N. J. The board of education adopted a rule which makes merit the requisite in the appointment of teachers, and destroys the hitherto all-important political influence and personal preference. Under the new rule the averages of the candidates in the high and training school and their experience and skill shown as substitute teachers are considered and preference is given the one who excels. A record is kept of the work of each substitute by the superintendent, who, with the principal of the school in which a vacancy exists, are consulted.

The trials of a state superintendent may be judged by some of the complaints which come to him for attention. A citizen of McMillan township, Luce county, Mich., last month complained to Supt. of Public Instruction Hammond that a married woman who is related to each member of the school board is permitted to teach, although she has no certificate. He also said that she gave birth to a child in the school house last May, but was suffered to keep right on with her teaching. The superintendent is given the following corker by a resident of Yuma, Wexford county: "Can school boards vote to have fourteen months' school in a year? I do not see how they can do it, because that is two more months than is in a year."



NIGHT SCHOOL IN CHICAGO.

## IN MEMORIAM



**DIED SEPTEMBER, 1899.**

**DANIEL L. FISH,**  
Author Fish's Arithmetic,  
Rochester, N. Y.

**MISS CHRISTINE SULLIVAN,**  
Superintendent of Drawing,  
Cincinnati, O.

**ALONZO REED,**  
Author Reed's Word Lessons,  
Remsenburg, L. I.



# Text Book News.

Los Angeles, Cal. Prof. Byron C. Matthews, of Newark, N. J., during the N. E. A. held here denounced the classical study in high schools as instruction in immorality. He declared that education fixed morals and spoke with scorn of grounding pupils in ethics by keeping them four years amid pictures of the immoralities of a dead civilization.

"Caesar," he said, "was a butcher, reciting grandiloquently his triumph over a nation fighting bravely for existence; Cicero was a demagogue, who, in his orations, likened himself to a god, the better to sway the minds of the ignorant; Virgil in his *Enid* takes for his hero a man who did not hesitate to betray and desert a woman; the *Illad* of Homer recites the history of licentious Achilles, who sulked in his tent because he was denied a concubine. Yet of each of these the high school pupil has a year."

Mansfield, O. The board of education has decided to give two systems of vertical writing, the Natural Method, of D. C. Heath & Co., and the Normal Review System, of Silver, Burdett & Co., a trial.

Chicago, Ill. The Webster's New International Dictionary is still supreme with the board of education.

Warren, Minn. The following amount is charged all pupils for the use of text books during the year or part of year: In the high school, \$1; in all the grades except the primary, 50 cents. No charge will be made for text books in the primary grade. Payment for the use of text books must be made invariably upon beginning school.

Columbus, O. State School Commissioner Bonebrake has rendered an opinion covering an interesting point in the interpretation of the school book law. The law provides that, after a book has been adopted for use in a school, another shall not be substituted for it within five years, except by a three-fourths vote of the members of the board of education. The question arose as to whether, after a legal substitution had been made, the new book should be necessarily used for five years, or whether it should merely complete the unexpired term, as it were, of the one formerly in use.

The commissioner holds that the word substitution should be taken in its proper sense and that the new book should merely take the place of the old one for the portion of the five years during which the latter had not been used.

Brooklyn, N. Y. The board of education has received communications asking that certain text books be placed upon the list from the following firms: Ginn & Co.; Henry Holt & Co.; A. Lovell & Co.; D. C. Heath & Co.; M. Hardy; Central School Supply Co.; Alfred B. Westrup; Potter & Putnam (2); W. B. Harrison (3); Silver, Burdett & Co., and Funk & Wagnalls Co.

Des Moines, Ia. The free text book system has been extended to the high school.

Grand Rapids, Mich. The free text book system for the lower grades has been put into operation.

San Jose, Cal. The county board of education has ordered that vertical writing be made compulsory in all the grades after 1899.

Cleveland, O. The school council has been puzzled as to the legality of substituting revised for old text books before the expiration of time which they were adopted. The books under discussion—Montgomery's History, Frey's Geography and Wentworth's Algebra—have been revised by the publishers and brought more nearly up-to-date. These books were adopted two years ago and have three years more to run. Everywhere else such a change or substitution can be made without trouble.

A. J. Gray, Jr., represents the B. F. Johnson Publishing Company of Richmond, Va. This company furnishes two histories in the new Tennessee list, Lee's Primary, and New School Histories.

Oswego, N. Y. Montgomery's history of the United States, Nebraska City, Neb. The Metcalf and Bright's language, parts one and two, and Frye's geography.

St. Paul, Minn. Barnes' National Vertical Penmanship System, Prang's Elementary Course in Drawing and the Columbia French Text Books.

Nashville, Tenn. Williams' Composition and Rhetoric, and Educational Music Reader No. 1.

New Paris, O. Metcalf & Bright's Language Lessons, Metcalf's Grammar, McMaster's History of the United States, and the "Natural" series of Geographies.

Utica, N. Y. Wentworth's New School Algebra.

Council Bluffs, Ia. Wells' Academic Arithmetic and Keeler & Davis' Studies in English Composition.

Wapakoneta, Ohio. Milne's Elementary and Standard Arithmetic, Metcalf and Bright's Language Lessons, parts 1 and 2; Metcalf's English Grammar; Seven American Classics; Keeler's English; Overton's Physiology; Wentworth's Geometry; Davis' Physical Geography; Reed's Word Lessons; Latin; German; Geography.

Kalamazoo, Mich. DeBordes' Elements of French, Lewis' First Book in Writing and English and Montgomery's English History.

Portland, Me. Normal Music System.

## Tennessee Wants More Books.

Sealed proposals will be received at this office until 12 o'clock noon, Nov. 1, 1899, for furnishing the following books to the public schools in the state of Tennessee for a period of five years:

Mental Arithmetic.  
Higher, or High School Arithmetic.  
Elementary Geology of Tennessee.  
History of Tennessee.

Sealed proposals will also be received at the place, and until the time above stated, from authors or publishers of text books, having manuscripts not yet published of the following books:

Elementary Geology of Tennessee, and History of Tennessee, containing the constitution of the state; for prices at which they will publish and furnish in book form, such manuscripts, or for prices at which they will sell such manuscripts, together with the copyright of such book.

Bids will be made on books for separate branches, and shall state definitely the price at which each book will be furnished—all expense, including freight, express charges, or postage—in placing books in the hands of patrons, to be borne by the furnisher.

Accompanying each bid, but under separate cover, shall be one or more specimen copies of each and every book or manuscript proposed to be furnished, and each bidder shall deposit with the treasurer of the state five hundred dollars (\$500), such deposit to be forfeited absolutely to the state if the bidder making the deposit of any sum shall fail or refuse, in case of acceptance of his bid, to make and execute such contract and bond as is required by said act within thirty days after the notification of the acceptance of his bid by the text book commission, as provided in said act.

All bids will be opened on Nov. 15, 1899, in the office of the governor of the state of Tennessee, in the presence of the text book commission, and while the same is in executive session. The right is reserved to reject any or all bids. The successful bidder or bidders shall be required to maintain in the state three depositories, one at Nashville, one at Knoxville, and one at Jackson, at which a supply of the book or books to be furnished, sufficient to meet all immediate demands, shall be kept. The principal depository shall be at Nashville.

The successful bidder or bidders shall be required to establish agencies in the several counties and places in counties in the state as may be provided for in such regulations as the text book commission may adopt and prescribe.

Each person, firm or corporation to whom a contract is awarded, shall be required to take up and receive the books now in use in the state, in exchange for new books on the same subject, at a price not less than 50 per cent. of the contract price of such new book or books.

No bid will be received for furnishing books at a greater price than the same books are now furnished by the bidder to any state, county or school district in the United States, under like conditions prevailing in this state, and under the act above mentioned.

All contractors will be required to print plainly on the back of each book the contract price as well as the exchange price at which it is contracted to be furnished, but the books submitted as specimen copies shall not have the price printed upon them.

## New Text Book Adoptions.

Irish's "American and British Authors" has recently been adopted in northern Indiana normal school and business college, Valparaiso, Ind.; in the high schools of Lebanon, Smithville, Clarington, Williamsburg and Antwerp, O.; also in the high school of Keyser, W. Va., and in Green township, Wayne county, O.

Irish's "Orthography and Orthoepey" has been adopted in the high schools of Oskaloosa, Ia.; in the high school of Elida, O., and in many other places.

Chicago. The schools opened with the following new books: Rand, McNally & Co.'s Elementary Geography, Speer's Elementary Arithmetic, Moore's Grammar School Arithmetic, Wheeler's Graded Studies in English, McMaster's School History of the United States, "The Young People's Physiology No. 2" and "The Human Body and How to Take Care of It," Hill's Foundation of Rhetoric, Tarr's First Book in Physical Geography, the "Atlas Series of Biological Tablets," Gayley's Classic Myths, Harkness' Complete Latin Grammar, Phillips and Fisher's Plane Geometry for Wentworth's Plane Geometry, Phillips and Fisher's Plane and Solid Geometry, the Chicago High School Laboratory Manual in Physics, Aver's Physics, Shaw's Outlines of English and American Literature, Young's Lessons in Astronomy, the Chicago High School Laboratory Manual in Chemistry.

Wells' Essentials of Algebra was recently adopted at the Southern Illinois normal at Carbondale and the Eastern Illinois normal at Charleston, Ill.; also in high schools of Peoria, Ill.; Muncie, Ind.; Bloomfield, Ia.; Shelbyville, Ky.; Luzerne, Minn.; Falls City, Neb.; Stillwater, Minn.; Appleton, Wis., and Columbus, O.

Wells' Essentials of Geometry was recently adopted at Ewing college, Ewing, Ill.; township high school, Peoria, Ill.; also high schools of Sterling, Ill.; Red Key, Ind.; Clinton, Ia.; Russellville, Ky.; Imlay City, Mich.; Appleton, Minn.; Beatrice, Neb.

Wells' College Algebra was recently adopted in the following colleges: Hedding, Abingdon, Ewing, Ewing, Ill.; University of Minnesota, State Agricultural school, Montana; Denison university, Ohio.

Racine, Wis. Walsh's arithmetic.  
Berlin, Wis. Reed's Word Lessons, Stepping Stones to Literature, Kelsey's Caesar and Cicero, and Gibbon's History of England.

Oneida, N. Y. Atherton's text book in first year Greek, and Phillips & Fisher's Elements of Geometry.

Jonesboro, Ill. White's Complete Arithmetic.

Chicago, Ill. The Prang Elementary Course in Art Instruction.

Lansing, Mich. Keller's first year in German.

Manchester, Ill. Reed's Word Lessons, Reed's Introductory Language Lessons, Cyr readers to fourth reader, Williams' Chemistry, Meyer's General History, Merrill's vertical penmanship, and Shepherd's spelling blanks.

Findlay, O. Needham's Zoology.

Boston, Mass. The American System of Music, by Zuchtman, published by the King-Richardson Co.

Rice Lake, Wis. Scott & Denney's Composition Rhetoric.

La Crosse, Wis. Davis Physical Geography and Payne's Geographical Nature Studies.

Steubenville, O. American Word Book, Metcalf's Grammar, Frye's Geographies, and Montgomery's U. S. History.

Decatur, Ind. The following is the list of text books adopted for use in Adams county: Frye's Complete Geography, Frye's Introductory Geography, Indiana Ed. Srs. Readers, New Advanced Arithmetic, New Elementary Arithmetic, New Era System of Slant Writing (1-6), New Era System of Vertical Writing (1-6), Montgomery's Leading Facts of American History, Hyde's Practical Lessons in English, Hyde's Practical Lessons in English Grammar, Spelling Book, Primary Physiology, Advanced Physiology.

Topeka, Kan. The state text book commission has added the following books to the adopted list of text books: Wooster's Primer, Prentiss' History of Kansas, Burt's Primary Reading Chart, Miesse's Primary Language Chart, and Rand, McNally & Co.'s Maps and Status.

Lansingburgh, N. Y. Reed & Kellogg's Grammar.

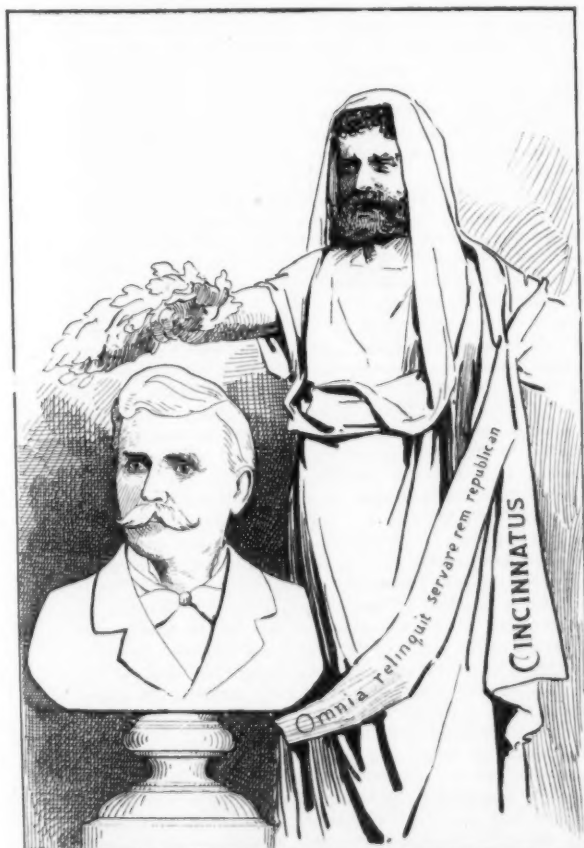
White Hall, Ill. Williams' Chemistry.

Rockford, Ill. McCleary's Physics.

Charleston, W. Va. Pollard Readers.

Dr. Frisbee's work, "The Beginner's New Greek Book," a practical method in Greek, has recently been adopted in nearly every important school in Maine, as, Biddeford, Saco, Westbrook, Grille Institute, Yarmouth, Bridgton, Gorham, Norway, La Paris, Brunswick, Bath, Rockland, Houlton, Ricker Class Institute, Coburn Class Institute, Gardener, Lewiston, Portland, etc.

(Continued on Subsequent Pages)



Prof. R. G. Boons Honored with the School Superintendency of Cincinnati.

Considerable stir was made in Indiana when a few errors were discovered in the Eaton copy books recently adopted in that state. The copy books are a recent publication and have not undergone the usual routine of purification. The publishers, Eaton & Co., of Chicago, have now made all corrections.



## Modern School Buildings.

## THE ESSENTIALS IN CONSTRUCTION AND APPOINTMENT.

The school board of Jersey City, N. J., has worked out a report on the requirements of an up-to-date school house that deserves the attention of all school officials. In substance it contains the following:

**"Size of Building"**—The building should, of course, be large enough to accommodate all pupils who wish to attend, and yet too large a school is not advisable. When the limit—about 1,500 pupils—is reached, two schools should be built. It should be noted, however, that the cost of maintenance and the salary account are greater in the case of small schools than in the case of large schools.

**"Durability"**—The building should be strong, because it must frequently sustain the strain of hundreds of moving children. As no building is subjected to such great wear and tear as a school, the materials employed should be the best. Frequently inferior materials are employed in order to economize. The employment of such necessary materials as iron girders, rock plaster, steel ceilings, maple or yellow pine flooring, etc., ought not to be, but often is, unfortunately, regarded as debatable.

**"Drainage and Plumbing"**—The pupils' toilets should be of the very best and latest pattern. They may, if neglected, become the source of great danger. They should be thoroughly flushed and ventilated. They should be designed with a view to cultivating the delicacy and protecting the morals of the pupils. In general, it may be said that the habits which the careful mother seeks to teach her children should be encouraged in school by providing the pupils with the same sanitary appliances which the first-class bath room possesses. The best plumbing and drainage are expensive, but economy should not stand in the way of health.

**"Plan"**—The building should be so designed that it administers to the comfort and convenience of pupils and teachers. Because the building is built in order not only that the teacher may instruct the pupils, but also that he may do this under the most favorable circumstances, the class room should be the unit of construction. In other words, the place where the principal work is done, where the large number of human beings who inhabit a school spend nearly all their school time, should be the starting point. The building is only an aggregation of class rooms. First consider:

**"Size"**—The class room should be of such size that each child may have not less than fifteen feet of floor space, or, better still, not less than eighteen to twenty square feet, and not less than 225 cubic feet of contents. With this in mind, it will be easy to determine how large a class room should be. The present practice is to construct class rooms for fifty pupils, not because it is considered desirable that a teacher should have that many pupils (indeed, no teacher should have more than forty pupils), but because if the number of pupils is less, the cost of maintenance will be greater, since more teachers will be required. In other words, economy necessitates large classes.

**"Light"**—The windows of a class room should be not less than twenty-five feet from the nearest building. The class room should be so located and the windows so constructed that it will be possible to seat the pupils in such a way that the light falls over the left shoulder of every pupil. The windows should be square-topped and should reach as near to the ceiling as possible, so that the light may be well diffused. The windows should be on the long side of the room. The amount of window space should be carefully proportioned to the floor space, and no desk should be farther from the windows than one and three-quarters times the height of the windows, or, as some say, one and a half times. No pupil should be compelled to face a window. The teacher's eyes should also be protected; hence many favor the unilateral system, in accordance with which windows are placed only on one side of a class room. In this way also, cross shadows are avoided. As the teacher is able, in fact, is required by her duties, to move her position, she can usually avoid facing the light. So that both unilateral and bilateral lighting may be regarded as acceptable.

**"Decoration"**—In constructing class rooms the possibilities of decoration for the purpose of cultivating the æsthetic sense of pupils should be considered. It must necessarily be believed that other considerations are more important. Yet, in building a school and in arranging the countless details of construction, many opportunities are offered for assisting future decoration. Thus, picture moulding, if included in the first cost of a building, is comparatively inexpensive and should be provided.

**"Teacher's Closet"**—Every class room should have a closet in which the teacher may deposit books and supplies which are in daily use.

**"Cloak Rooms"**—Ample facilities should be provided for depositing pupils' clothing. These are too commonly disregarded. Clothing is often a source of contagion and uncleanness; hence it should be possible to deposit it that it may hang free and not come in

contact with other clothing. It is a common fault in old buildings that pupils' clothing is neglected. Usually clothing was hung in the class rooms, thus crowding the room, already too small, and when wet or damp, filling the room with an odor always unpleasant and frequently prejudicial to comfort and even health; or else small closets not larger than the ordinary closet found in private houses were provided for fifty and even sixty children. Into these small closets clothing is sometimes packed so tightly that it is destroyed. But this is not the most serious objection. This close contact of clothing is a serious danger to health, not to speak of the uncleanness to which it leads. The cloak room should be well heated and ventilated, not only to prevent the communication of disease, but in order that wet clothing may become dry before being used again. Indeed, the same careful precautions should be taken in the case of the cloak room as in the case of toilets. Every mother and every teacher appreciates the value of having water at hand at all times. Every cloak room should have a washstand with running water.

**"Halls and Stairs"**—Halls should be wide and direct. Stairs should be wide and without winders. It is frequently necessary to dismiss pupils rapidly. It may be understood easily that in case of an alarm of fire pupils should leave the buildings as rapidly as possible. Therefore the means of egress should be easy, and unobstructed; narrow halls and winding stairs are exceedingly dangerous. An alarm of fire may lead to a panic. The panic is much more to be dreaded than the fire. Experience has shown that in cases of fire in all places of assembly, whether church, theater, fair or school, more lives have been lost and more persons injured because of panic than because of fire. If one child should stumble on a winding stair or in a narrow hall, many would fall in a heap at once with appalling loss of life.

**"Fire-proof Stairs"**—Sufficient fire-proof stairs should be provided. Indeed, it would be wise to make the whole building fire-proof, and that is sometimes done. Doubtless in the near future it will be considered dangerous, if not criminal, to crowd hundreds of children into one non-fire-proof building. A fire-proof building is, of course, much more costly than one that is not. As long as the buildings cannot be fire-proof, fire-proof stairs should be provided. The state law requires that all schools over two stories in height shall have fire escapes (outside). If they are provided, they must be in addition to fire-proof stairs, and not as a substitute for them. The stairs could and should be used for the ordinary, every-day ingress and egress. In time of panic pupils do not act deliberately; they rush out thoughtlessly and excitedly. They are guided solely by habit. It is therefore wise to use the fire-proof stairs regularly, so that they will use them almost instinctively in case of fire.

**"Fire Hydrants"**—For checking a fire in its incipency and for use until the firemen arrive, fire hydrants, with attachments ready for instant use, should be provided.

**"Play Yards and Inside Courts"**—Spacious yards and interior courts should be provided, in order that children may have recreation not only in pleasant, but also in inclement weather. While the custom of including in school buildings regularly equipped gymnasia is growing, and although they must be considered desirable, they are not here advised because of the expense. If gymnasia should be provided, they should not take the place of play yards, but should be regarded as a means of symmetrical physical development under scientific guidance. For the school children generally no physical exercise is so exhilarating, so pleasant and so generally beneficial as unrestrained play. Therefore the absence of gymnasia is not felt as a loss. But the yards and courts should be ample in area, in order that children may romp freely.

**"Assembly Room"**—The considerations which have been urged and which must be regarded as preponderating, necessitate the abandonment of the plan in accordance with which class rooms are merely parts of one large room, separated at will by sliding doors. In this plan it is not the class room, but the building or floor, which is the unit of construction. The assembly is regarded as of first importance. The plan is objectionable, therefore, because it sacrifices the most important uses of the school to the assembly which is its occasional use. Where sliding doors are used the class rooms are, indeed must be, too small, proper facilities for storing clothing cannot be provided and the rooms are very improperly lighted. An inspection of buildings so constructed will convince even the most careless observer of the truth of these statements. Besides, the sliding doors are constantly out of order and necessitate much expense. Furthermore, as the doors are not tightly fitted, pupils are exposed to dangerous draughts. And yet the frequent assembly of a school or department in one body is of incalculable moral benefit. Such assemblies are held not only on occasions of public exercises, but in the daily opening exercises, with immense pleasure and profit to the pupils. These assemblies serve to inculcate proper discipline, to teach pupils proper decorum in large gatherings, to remind them that they are small, but important parts of a large organized whole, to encourage them by means of

the general communion with other classes and by a general participation in school exercises and instill in them a loyalty and love for the school. An assembly room large enough to seat all the pupils should be provided. Furthermore, it may be valuable to the community by using it for evening lectures, for which old-time schools are not well adapted.

**"Storage Rooms"**—Ample storage rooms should be provided in which to keep the stock of books, stationery and supplies carried by every school.

**"Gas"**—The school should be piped for gas or wired for electric lighting, in order that it may be used for evening school purposes or for evening lectures.

**"Speaking Tube and Electric Bells"**—In order that principals and teachers may communicate quickly with all parts of the building, speaking tubes and electric connections are necessary. Their use is obvious.

**"Heating"**—Too frequently for economical reasons the plant is made insufficient. Hence in cold weather the school must be dismissed. Sometimes private houses are insufficiently heated. It may be said that as the inhabitants remain in them even then, so might pupils be required to remain in school. But it must be remembered that when at home persons may move about and thus seek warm spots or keep themselves warm by moving, while in school pupils must remain in their places or instruction would be impossible. It must also be remembered that the closing of a school means immense loss of time and instruction to hundreds of pupils. Therefore it is necessary to provide ample heating capacity. Instead of trying to furnish just enough, it is the wise policy to give the plant generous capacity in order that there may be no doubt about its ability to heat the building in all kinds of weather.

**"Ventilation"**—This subject, as connected with school construction, is probably least understood by people generally. In the outset let it be said that there is no kind of building upon which such great demands in the way of ventilation are made. The people who attend church have the advantage of a lofty ceiling and hence great air capacity. The air storage supplemented by that which may be safely introduced by means of windows and other openings, is nearly sufficient for the hour and a half, a very short time, during which the service lasts. When it is reflected that fifty or more pupils are compelled to remain in one small class room, not for one hour and a half, not for two hours and a half, but for five hours, not occasionally, but every school day, and that during most of this time the movement of the pupil is limited, the great demand for fresh air, as it is made upon the school, may be appreciated. A further comparison may be profitable. A room fourteen feet square by nine feet high would ordinarily not be considered a small sleeping room for two persons. Even with windows open its occupants frequently realize very forcibly how impure the air is in the morning. And yet the air capacity of such a room is 1,764 cubic feet. To give the same capacity per pupil to a class room of fifty pupils, the class room would have to be fifty-six feet square and fourteen feet high (the usual height). Even if such large class rooms should be constructed, it must be understood that the air would not be better than that in the sleeping room described, which, as everybody knows, is, after use, quite impure; indeed, it would not be as good, because the windows could not be used as freely. Not only these comparisons, but, better still, long experience shown conclusively that ordinary means will not suffice, if we wish to provide the school with fresh air. Natural ventilation is utterly insufficient. Mechanical means must be used.

**"Impurities"**—What impurities in the air of school rooms should be removed? The air becomes filled with effete animal matter, which has been discharged from the lungs and skins of the pupils. It finds lodgment on the walls and woodwork of the room. It is this animal matter usually which causes the unpleasant odor present in poorly ventilated school rooms, and known as the 'school room odor.' If the person from whom it comes has some disease, there is an added danger to the other occupants of the room. In the cases of contagious diseases in the families of the pupils the germs of disease may easily be present in the room. As our schools admit, as they ought, pupils of all kinds and conditions, they must contain some who are not personally clean, even if they appear to be. This is particularly true of the smallest children. Odors frequently emanate from them, which are not only unpleasant and oppressive, but unhealthful. Even if they are clean, pupils frequently bring to school in their clothing a mixture of unpleasant odors. If the air is not changed often, the pupils must inhale again and again all these impurities, and must pay the penalty therefore in drowsiness, headaches and subsequent ill health. Are we not blame-worthy if, realizing the presence of these dangers, we expose human beings day after day to air vitiated in so many ways?

**"Amount of Fresh Air Needed"**—It may be said that these dangers are commonly realized and that people generally appreciate the value of an abundance of fresh air, but this is only a generality, and those who make this claim do not particularize. People generally do not realize how great an amount of fresh air is needed and what extraordinary means are necessary to secure



it. Air is invisible and seems to have no weight. It seems, therefore, to be easily obtained in abundance. That it can be easily introduced into class rooms at all times with safety, as well as in abundance, is not true. It has been shown that there are many other impurities besides carbonic acid gas. The presence of this gas in excessive quantities may, however, be used as a guide, for where too much of it is present the others are also present. Keeping in mind the capacity of the lungs, the amount of air breathed at one inhalation, the amount of oxygen consumed, and the proportion of carbonic acid gas contained in one exhalation, it is easy to calculate with certainty how much air each person consumes; or, in other words, how much air each person vitiates. These are not mere conjectures. They are facts easily ascertained by scientific investigation. They have been accurately determined, as could be shown if time and space permitted. It is generally accepted that in order that air may be kept pure, each person in school must be provided with at least thirty cubic feet of fresh air every minute. Massachusetts expects this of every school building by law, and enforces the law by rigid state inspection. In that state the amount of air furnished every pupil is usually considerably greater than the minimum.

"Usually this minimum as a basis, in a class room containing fifty pupils, 1,500 cubic feet of air must be introduced every minute. A consideration of this amount shows the futility of ventilation by windows, or even by devices depending for their operation on natural conditions. In order to introduce this amount of fresh air through an aperture a foot square the air would have to move with a velocity of 1,500 feet per minute, or about seventeen miles per hour, which would imply quite a strong wind. If the aperture were enlarged to two square feet the velocity would be half as great. If the air entered it certainly would expose the children in cold weather to strong draughts. But it does not enter, because it cannot, since no exit is provided. One might as well try to pour more water into a vessel after the vessel is full. Besides, how can it enter when there is no wind or when the wind is in the wrong direction?

"Power—Enough has been said to show that the air supply must be in sufficient quantity, and must be constant. If we multiply 1,500 by the number of class rooms in the building, not considering in the present calculation the other rooms which should be ventilated, or for a building of twenty-six class rooms, 39,000 cubic feet per minute. As has been intimated, it must not be supposed that this enormous quantity of air can be moved easily. The weight of air is about one and a quarter ounces to the cubic foot. The problem which one must solve in ventilating a school building is therefore apparent. As he can by no means depend on natural conditions, or even on the pressure resulting from a difference in temperature of indoor and outdoor air, he is compelled to do what every man who wishes to lift enormous weights has to do, viz., he must resort to mechanical appliances; that is, he must use one or more of the mechanical powers. Hence he uses fans or blowers propelled by steam engines, water motors, gas engines or electric motors. The amount of power, or the amount of horse power, of these motors, no matter which kind is used, can easily be determined by a calculation based upon the work which they must do.

"Tempering Coils—But to introduce so much cold air with the requisite rapidity would subject the pupils to dangerous draughts. Therefore, before entering the class rooms, it must be heated. This is done at the point where it enters the building by indirect coils. Heating and ventilating are thus combined.

"Methods of Ventilation—It is not possible to discuss here the different ways in which heating and ventilating may be combined, as direct, indirect or direct-indirect, or the different ways of heating. It will suffice to say that a combination of the direct and indirect gives the best results, although, unfortunately, its installation is the most expensive, but, which is really of greater importance, the cost of operation is least. Where gas and electric or water power are expensive, it is more economical to use steam engines to propel fans. They are doubly economical, because they can be operated more cheaply, and exhaust steam can be turned into the heating system and thus used for heating as well as for power. The use of steam engines involves greater cost for construction, not only because of their own greater cost, but because of the necessity of additional appliances. The cost of operation is, however, much less.

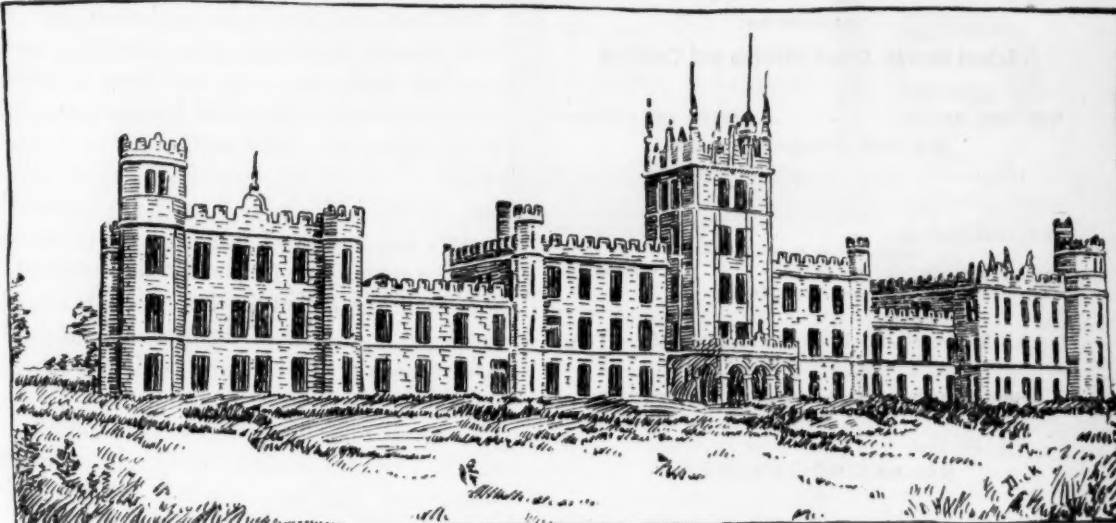
"Heat Regulation—Besides the danger of great cold, there is the danger of too much heat. On ordinary days, owing to the heat supplied by the heating plant, supplemented by that radiated from the bodies of the pupils, each of whom is himself a radiator, school rooms are frequently overheated. This happens because the teacher, who is engrossed with her work, does not always think of the temperature. If continued, too much heat tends to stupefy the children and renders them susceptible to colds. It is therefore wise to provide every school with a system of automatic heat regulation, which will maintain a constant equable temperature. Aside from a consideration of health of pupils, by using only the steam necessary and no more, the system saves fuel and this in a few years returns the cost of its installation.

"Ornamentation—The excellence of a school should be judged by its internal arrangements and facilities, by the manner in which it fulfills the purposes of its erection. It must be admitted, however, that most people judge its merit by its external appearance. The exterior of a school building should be ornamental, not only because of the effect of ornamentation on the young, but because a public building should furnish the

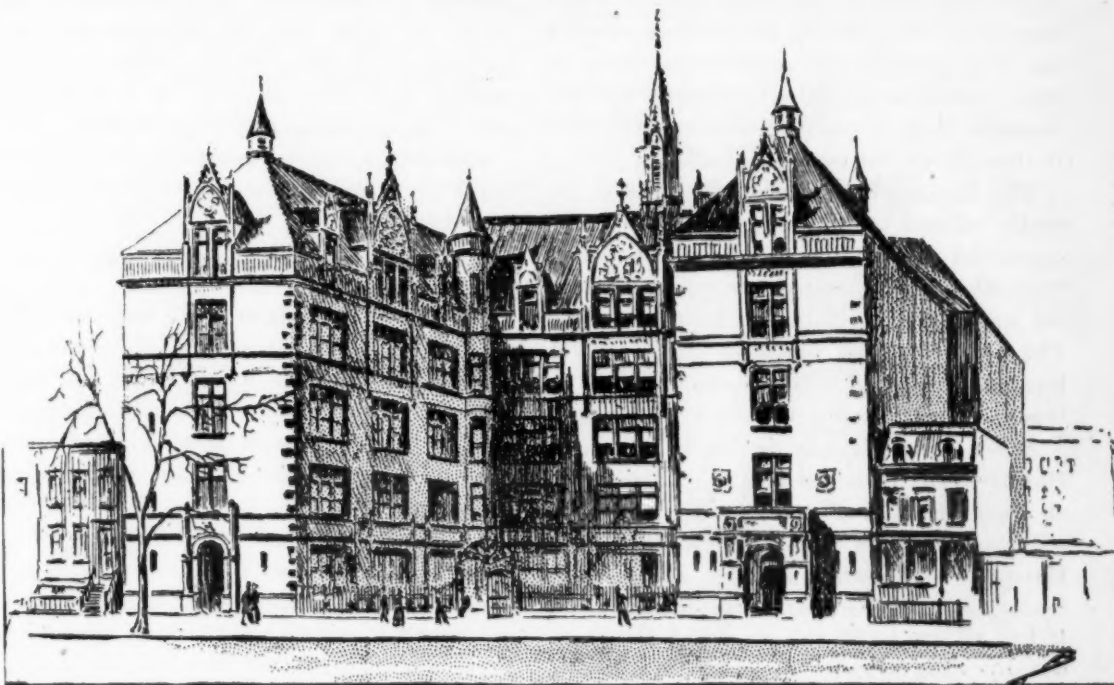
standard of taste for private buildings. The wisest policy is, of course, to make the interior construction as nearly perfect as possible, with due regard to economy of materials, and to make the exterior as ornamental and as artistic as means will permit.

"Furniture—Schools, of course, need furniture, and large ones need much of it. The subject is as important

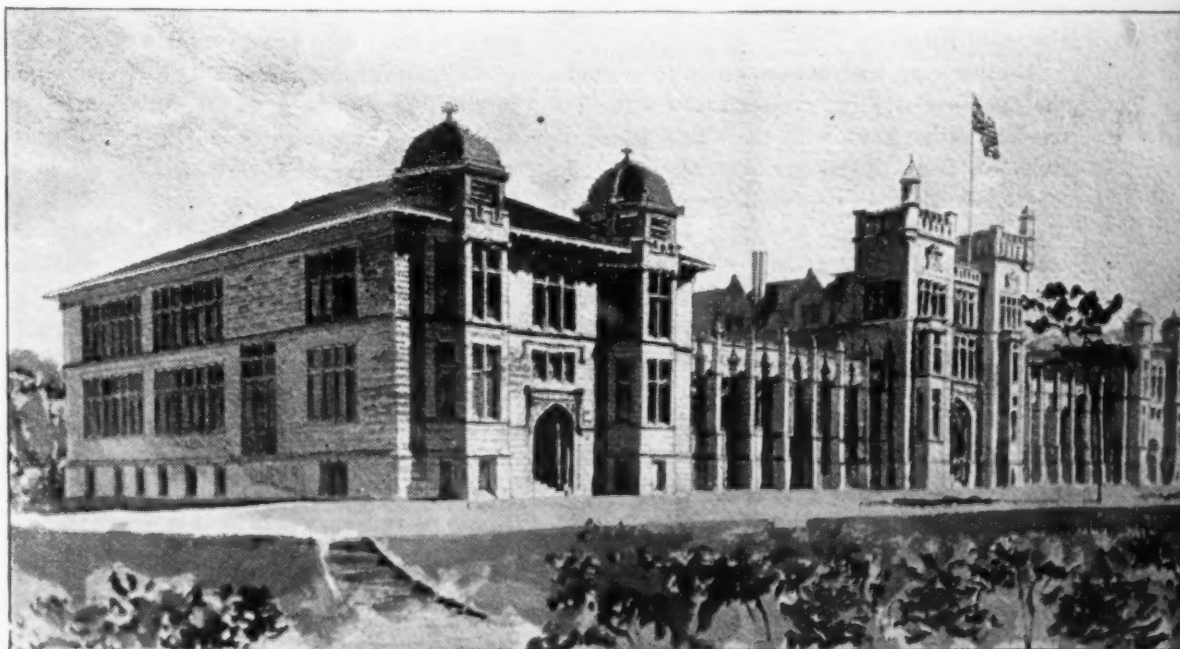
as the construction of the building and a discussion of it would certainly be very interesting. In furnishing a building many grave questions arise, which, owing to the conflict between sanitary and scientific considerations and the funds available, are not always easily answered. It cannot, however, be discussed here. It ought to be said that the expense is considerable."



NEW NORTHERN ILLINOIS STATE NORMAL SCHOOL, DEKALB, ILL.  
Dedicated Sept. 22, 1899.



NEW SCHOOL BUILDING, NO. 159, NEW YORK CITY.  
One Hundred and Nineteenth and One Hundred and Twentieth streets, between Second and Third Avenues, 48 classrooms  
Cost, \$307,000.



THE NEW NORMAL SCHOOL AT MARQUETTE, MICH.



# THE AMERICAN School Board Journal

DEVOTED TO

School Boards, School Officials and Teachers.

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## RELEASING TEACHERS.

At this season of the year we frequently hear of cases where teachers have accepted appointments at the hands of different school boards, choosing finally the position offering the best salary. The declinations have in many instances reached school boards too late to enable them to make suitable appointments in time for the fall opening of schools.

The Racine, Wis., board of education recently refused to release a teacher who had contracted to teach the ensuing school year at \$650 when she requested her release because she was offered a position at \$750 elsewhere. The board assumed that the teacher would break her contract without compunction, as this had been done by teachers so frequently.

A few instances may be cited: At New Hampton, Ia., Principal L. T. Gould accepted an appointment, and soon after engaged himself elsewhere at a higher salary. The New Hampton board, when asked to release him, found itself in an embarrassing predicament. It had no one to fill the place just then and was unwilling to close the schools in order to please Mr. Gould. It asked for time until another principal could be secured. Mr. Gould, however, cared nothing for a contract, written or implied, and eloped with himself during the night time.

Another case, and one in which it is shown the public usually sympathizes with the teacher, rather than with the school board, is reported from Pittsgrove township, N. J., where the board of education recently elected Miss Ella Denelsbeck, and in a letter to the board she accepted the position. Shortly afterward the board of education at Elmer, a neighboring town, also elected Miss Denelsbeck to a school, and she accepted, and promptly sent her resignation to the Pittsgrove board. The latter body not only flatly refused to accept the resignation, but declared that if Miss Denelsbeck was not at the school house on the opening day they would put the law on her for "breach of promise" and make a test case to establish whether the acceptance of a school constitutes a binding contract on the part of the teacher. Some members of the Elmer board pronounced it "pig-headedness" in the Pittsgrove board to try and keep Miss Denels-

beck away from them, while the members of the Pittsgrove board declared themselves "tired of running after the girls who promise and then back out."

Teachers are no doubt as honest as are school boards, and there is no reflection upon the whole profession to say that more teachers violate contracts with school boards than *vice versa*. There are more teachers than school boards. But even teachers should hold a contract sacred. If school boards are expected to carry out contracts, teachers are expected to do the same. We frequently hear of teachers who bring action in law against school boards for violation of agreements. School boards usually let their claims against teachers go by default.

We have often referred to the fact that there is a business side to every professional calling, and that the teacher should look closely after his or her business interests. Appointment to lucrative positions, promotions, increase in salary, etc., are included in the effort to secure material advantages. But teachers are as much held to correct business methods as is the merchant. It is as dishonorable for a teacher to break a contract with a school board as it would be for a school board to withhold from the teacher a well-earned salary.

## TEXT BOOK IMPERIALISM.

The Tennessee uniform text book law, like all similar laws, is a piece of outrageous paternalism which the Memphis board of education intends to ignore. The board will continue such text books in its schools as it may from time to time select. That is a sensible course.

We do not encourage the violation of law, but we hold that laws that are to be obeyed must be just and must reflect public opinion and not the mere desires of selfish legislators. There are thousands of laws on the statute books of the several states that are a dead letter. Public opinion has made them so. If the people of Memphis do not believe the uniform text book law to be a just one and applicable to their own local conditions, no power should compel them to comply. No doubt the intellectual standard of Memphis ranks as high as it does elsewhere and its school board is representative of that standard. If so, it is capable of governing its school affairs without the intervention of a swell text book commission whose judgment may be as fallible as that of the Memphis school board.

We are well aware that the uniformity problem presents some economic advantages, but when these are gained at the expense of public dignity and self-respect, they fall into insignificance. The spirit of democracy must by all means prevail in school government, if it is to prevail anywhere in this republic.

## SEPARATE SCHOOLS FOR COLORED CHILDREN.

The local court of Jamaica, L. I., has denied an application for a writ of mandamus to compel the school board to admit a colored

child to the white schools on the ground that Jamaica has a negro school especially provided by the board of education, from which white children are excluded, and consequently colored children may properly be excluded from the white school. This is a step toward the judicial settlement of a very troublesome question. The children of colored citizens are as fully entitled to the advantages of free public schools as are the children of white citizens. In an ideal state of society, perhaps, there would be no distinctions drawn on account of race or color, either in the public schools or anywhere else; but it remains true that in our present imperfect social order such distinctions are drawn, and the fact that they are so drawn cannot be ignored. In certain specific cases this fact has proved exceedingly troublesome in the conduct of public schools, and how to avoid the trouble is one of the problems which has yet to be satisfactorily solved. The provision of separate schools for the colored children only emphasizes the distinction and makes the line drawn between them and white children more broadly distinct than ever; but, so far, it has proved to be the only practical method of meeting the difficulty, and, as above shown, it is a method which is commanding recognition under the state laws regulating public education.

## HIGH SCHOOL SESSIONS.

Again and again the question of one or two sessions a day for high schools is brought up for decision in school board meetings. The teachers, as a rule, prefer the one-session plan. Students and parents differ in their wishes in the matter. In one town the one-session plan wins, while in another the two-session plan is retained.

Occasionally we find the subject discussed with more than ordinary vigor and with considerable ability. At Bath, Me., the school board is asked to change from two sessions a day in the high school to the one-session plan. Dr. Edwin M. Fuller, a member of the board, who has given the subject considerable attention, renders the following opinion:

"I am strongly opposed to the plan, not because I am prejudiced, but because I have looked into the matter thoroughly and have investigated its workings in some other cities. I am opposed to it on three grounds. The idea is against: First, good health; second, good sanitation; third, against good scholarship.

"By the new plan the pupils are to go to school at 8:30 o'clock and remain there for five hours and a half with a recess of only twenty minutes. The air in the school rooms is bad enough under the present arrangement, but it would be much worse under the new. Then I claim that a twenty minutes respite in five and a half hours is too little for growing boys and girls. If we adopt the new idea we shall be raising a class of dyspeptics. At the twenty minutes recess they will, if they eat a lunch, spoil the appetite for a good dinner; if they don't lunch, they will simply be





PROF. R. G. BOONE,  
Superintendent of Schools, Cincinnati, O.

going without food which the stomach demands.

"The scholars cannot do justice to their studies by the new plan. We see today many scholars, especially young girls, compelled to leave school on account of their health, or if they continue to attend, by the time they have finished the course they are broken down. It doesn't do to work young people too hard or too constantly.

"Naturally teachers would favor such an arrangement, for it gives them an afternoon and evening off, and I can best compare them with the boss over a crowd of men. He directs the others, but the fellows doing the real hard work need a little rest at noon time. The human body is like a machine in many respects, work it along gradually and it lasts longer, but drive it constantly to its greatest capacity and it doesn't last as long.

"I have talked with superintendents in some of the other cities where the one-session idea is in vogue, and while they admit it is a good thing for themselves, they say it is bad for the scholars. I believe that the one-session idea would be a great mistake and an injury to the scholars."



For the first time in the history of New York, there is, at the fall opening of schools, desk room for every child.

Memphis is making extraordinary arrangements to entertain the Southern Educational Association next December. Local committees, of which Supt. Geo. W. Gordon and President Israel H. Peres are members, have been appointed. Hon. Junius Jordan, of Fayetteville, Ark., is the president of the association. An attendance of 5,000 teachers is expected.

Dr. Boone's friends, numbered by the thousands in Michigan and elsewhere, rejoice to know that he now has a field worthy of his ability. A born educator, a born intellectual leader, he will find in the liberal atmosphere of Cincinnati the encouragement and inspiration which mean so much to men of his type.

Standing midway between the ultra-conservative and the radical, self-appointed reformer, he represents the best in modern educational thought, and wisely utilizes the tested methods of the past, as well as the highest ideals of the student of today.

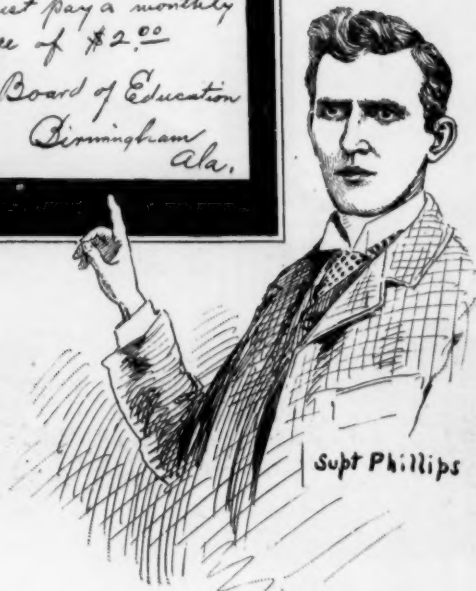
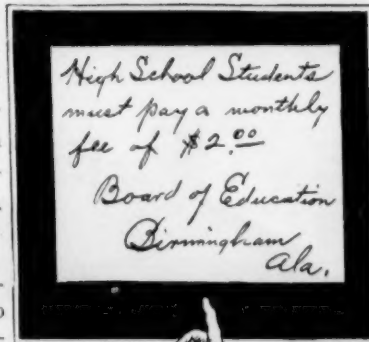
The degree of A. M. was conferred upon him by De Pauw university, and that of Ph.D. by Ohio university. For ten years he was at the head of the Frankfort, Ind., public schools, for seven years professor of pedagogy in the University of Indiana, and for the past six years principal of the state normal college at Ypsilanti, Mich.

The persistent industry and self-effort which Dr. Boone constantly holds before his students are characteristic of his own. An earnest apostle of individualism, he contends that the schools should and must make children independent and resourceful if they are to retain public support and confidence.

His addresses to his students and his public lectures are free from the schoolman's pedantry. No one is more ready to recognize the varied out-of-school agencies for growth in the child's intellectual life. "In a three years' course at the state normal," said a young man to the SCHOOL BOARD JOURNAL, "I have never once heard Dr. Boone advance visionary ideas or advocate impossible methods. The genuineness of the man made us believe in him and look up to him."

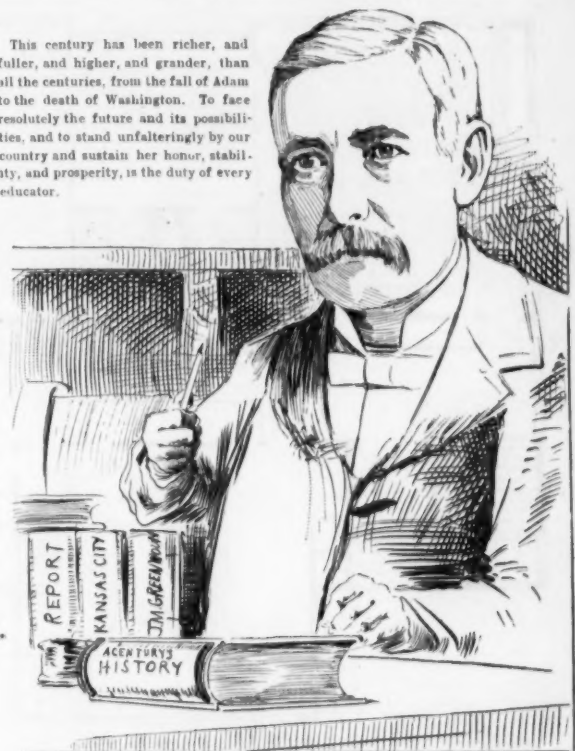
One of his published works is a valuable book of reference, entitled "The History of Education in America."

He is of Quaker descent.



The only public school in the United States which is not free.

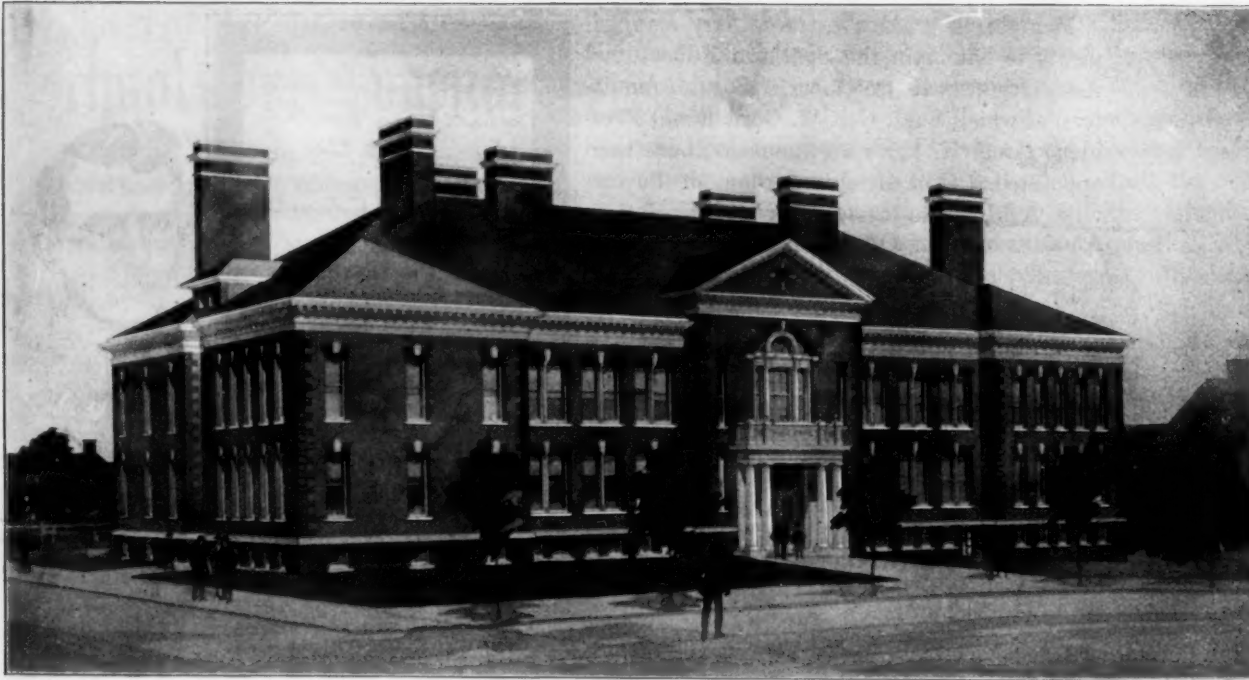
This century has been richer, and fuller, and higher, and grander, than all the centuries, from the fall of Adam to the death of Washington. To face resolutely the future and its possibilities, and to stand unflinchingly by our country and sustain her honor, stability, and prosperity, is the duty of every educator.



A paragraph from a report by Supt. J. M. Greenwood of Kansas City, Mo.



The city of Memphis, Tenn., invites the Southern Educational Association to meet there in December next.



Cost, \$50,000.

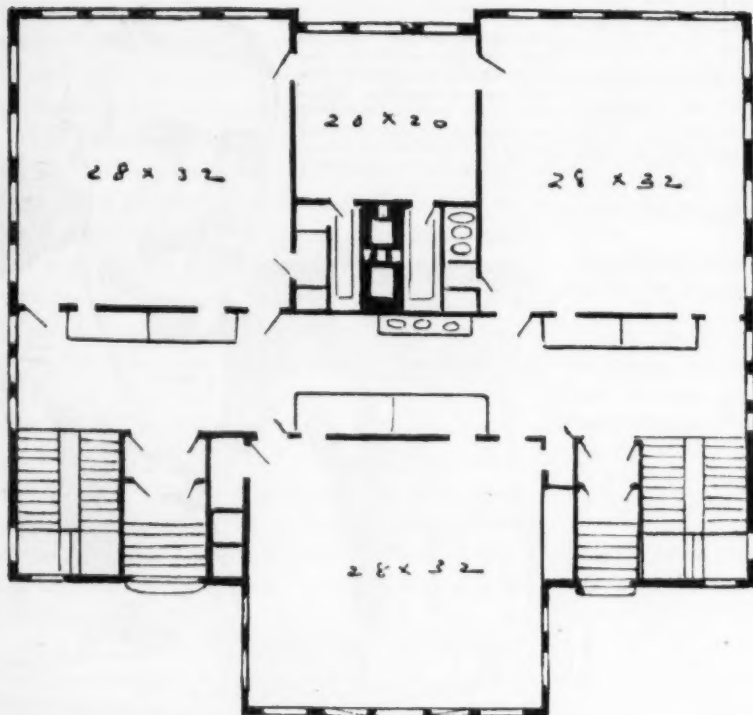
NEW CASS STREET SCHOOL, OMAHA, NEB.

### The New Omaha School.

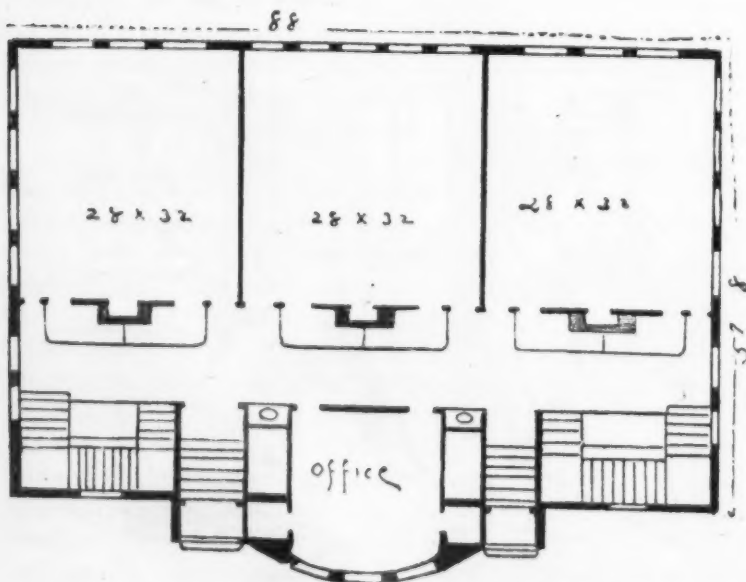
The board of education at Omaha, Neb., is elated over the new Cass street school building, which is nearing completion, an engraving of which appears on this page. Every convenience found to advantage in school buildings in other cities has been considered in its erection. The school is two stories high, with a basement, and contains sixteen rooms. The cost of the building is about \$50,000. It is practically fire-proof, the interior walls being of solid brick and the lathing of the ceilings of metal. It is heated by the gravity steam system throughout, which has been found to be the most successful for buildings of this kind.

Much attention has been given to the ventilation and lighting of this school. The rooms have been so arranged that they are all lighted alike. The same number of windows has been placed in all the rooms, and the desks and blackboards are so placed that the dominating light will be from the left. By this method the eyes of the pupils are not subjected to any glaring light nor are shadows thrown on the work on their desks. The new Grape street school building, nearly finished at Chicopee, is shown in the accompany-

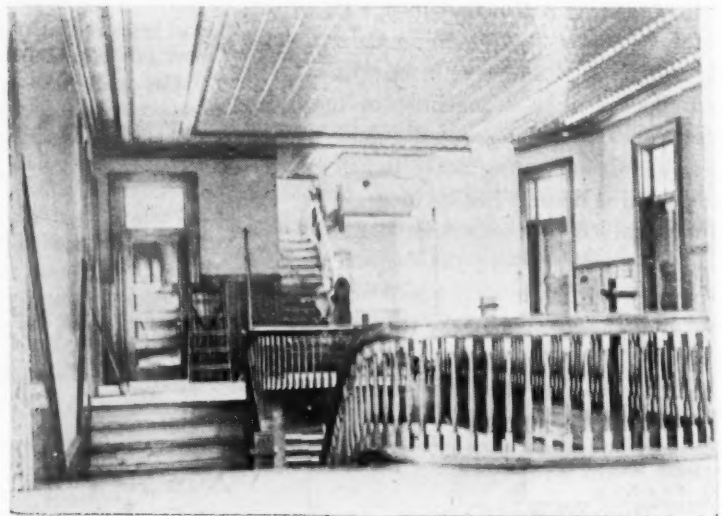
From Omaha Bee



THREE-ROOM SCHOOL HOUSE PLAN—KNOWN AS ANGEL &amp; SWIFT'S PLAN—PROVIDENCE, R. I.



THREE-ROOM SCHOOL HOUSE FLOOR PLAN—KNOWN AS FIELD'S PLAN—PROVIDENCE, R. I.



AN INTERIOR VIEW—CHURCH ST. SCHOOL, PORT JERVIS, N. Y.



NEW CHURCH ST. SCHOOL, PORT JERVIS, N. Y.



ing cut, and is illustrative of what can be done to make a simple, four-room school building architecturally attractive. The plans are by Architect G. P. B. Alderman, of Holyoke, and call for a building costing about \$14,000. It is Italian renaissance in style, built wholly of brick, and has four large rooms, 27x32 feet in dimensions. The main entrance leads to a vestibule, which has stairs leading to the upper story. Passing on, a hall runs through the building, with stairs at the rear. At the right of the entrance is a small room for the principal. The building contains the latest improvements, slate blackboards, sanitaries, modern heating and ventilating and the like.

#### Building and Finance.

American school children have contributed \$45,694 to the fund to be used in the erection of a monument to LaFayette in Paris.

Peoria, Ill. The school board has decided to pension teachers who have been in the employ of the city twenty-five years.

Portland, Me. Mayor Robinson has told the school board that he believed it would be wiser to spend less money on school buildings and more on teachers.

Kalamazoo, Mich. The members of the board of education and the superintendent annually are driven in a carryall and spend the whole day in inspecting the school buildings and determine upon repairs.

Detroit, Mich. President Horace G. Smith of the board of education believes that the real estate transactions of the board should be made privately and without publicity.

Toledo, O. The board of education has promised the Trades' Council that it would favor union labor.

Missouri. The last legislature passed a law touching the borrowing of school money. It says: "The county court shall not loan any money belonging to school fund to any officer of the county, or his deputy, nor shall such officer or his deputy be accepted as surety on the obligation given by the person borrowing. An officer of the county who shall violate the provisions of this section by authorizing any such

loan or drawing any warrant for money loaned shall be responsible individually for the same, together with interest thereon to be recovered in the county to the use of the district whose fund has been used."

Paris, Md. The rates of tuition for non-residents fixed at \$25 per school year for the high school and \$15 per year for the grades.

Hammond, Ind. State Supt. F. L. Jones has given to the board of education his opinion to

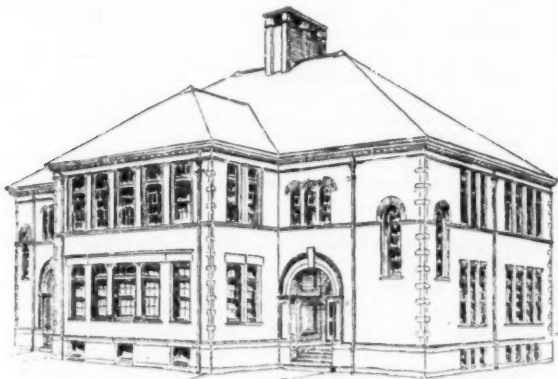
the effect that there is nothing in the school code which makes it necessary for the school board to report periodically regarding the financial status of the school system under their control.

Milwaukee, Wis. The allowances for car fare for the truant officer has been ordered discontinued.

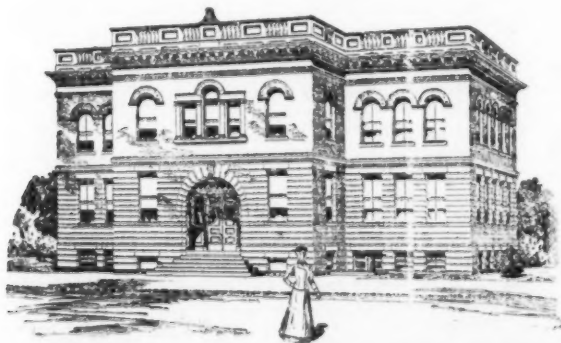
Kansas City, Mo. High school pupils living outside of the county must pay \$100 per year tuition fee. Heretofore the tuition was but \$50.



NEW HIGH SCHOOL BUILDING, SPRINGFIELD, ILL.



PROPOSED THREE-ROOM SCHOOL, PROVIDENCE, R. I.  
Angel & Swift, Archts., Providence, R. I.



NEW GRAPE STREET SCHOOL, CHICOPEE, MASS.  
Cost, \$14,000. G. P. B. Alderman, Archt., Holyoke, Mass.



Cost, \$8,000.

NEW SCHOOL HOUSE FOR SPRING CITY, UTAH. R. C. Wetkuzs, Archt., Provo City, Utah.



## School Supplies and Equipment.

Springfield, Ill. Every proposition by any vendor or agent for the introduction of maps, apparatus, etc., for the use of schools, must be made in writing to the board of education, through the secretary. No verbal proposition, either to the board, or to any member thereof, is entertained.

Lancaster, Mass. School desks ordered purchased from Heywood & Wakefield.

Washington, Pa. School desks purchased from E. A. W. Rowles, of Chicago, and from the Cleveland School Furniture Co.

E. G. Dann & Co., of Chicago, have received the contract to furnish the state of Kansas with their blackboard maps. This contract will prove an important one, as the demand for these maps is quite large.

Maryville, Kan. The contract for furnishing school supplies awarded to Chas. H. Davis. Part of the contract consists of an order for Grand Rapids ball-bearing single seats.

Philadelphia, Pa. Many parents are complaining that they are practically compelled to purchase text books, pencils, rulers and other school supplies for their children, because principals of the schools state they are unable to furnish them.

Santa Ana, Cal. The bid of Parke S. Roper & Co. for furnishing school supplies for the ensuing year was accepted.

Berlin, Wis. The board authorized the school clerk to purchase Hyloplate blackboards.

J. M. Olcott & Co. have received the entire order for general school supplies from Austin, Minn.

Davenport, Ia. Laboratory supplies procured from Bausch & Lomb Optical Co.

Minneapolis, Minn. Free supplies, tablets and pencils are no longer to be furnished the pupils.

Merrill, Wis. An offer from F. E. Mathews to put up No. 1 slate for blackboard in the high school for 23 cents per square foot was accepted.

Grand Rapids, Mich. A large quantity of school supplies purchased from the School and Office Supply Co. Four sets of Politico relief maps ordered purchased from Rand, McNally & Co.

Mount Vernon, Ill. The board has decided to have telephone instruments placed in the several school buildings.

Kansas City, Mo. Contract for blackboards awarded to D. E. Hunt at 24 cents a square foot.

South Omaha, Neb. The purchase of school supplies was divided between the Omaha Supply Co. and the J. S. Scott Co. About \$2,000 worth of supplies were purchased.

Canton, O. It has been proposed to place telephones in the various school buildings.

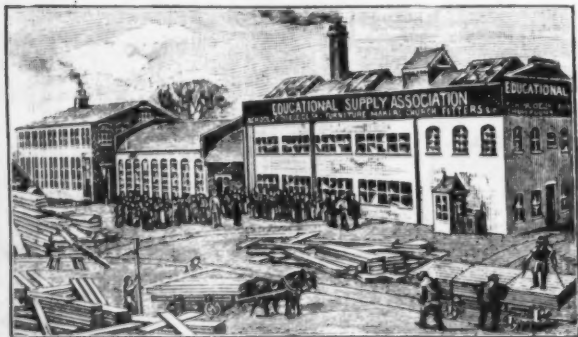
Kalamazoo, Mich. The Slatington Bangor Slate Syndicate furnished the necessary blackboards that were required. The contract for kindergarten supplies was awarded to Thomas Charles, of Chicago.

Sandy Hill, N. Y. The board has made a purchase of a \$350 Crowell physical apparatus for the illustration of mechanical ideas. It will be used in the study of physics.

J. M. Olcott & Co. have just completed filling a large government order for W. & A. K. Johnston's maps, crayons, reading charts, and other supplies for the Indian schools.

Louisville, Ky. Twelve of the public schools are equipped with the Kirker & Bender patent fire escapes. The pens and pencils of the Eagle Pen and Pencil Co., of New York City, are used in the schools.

Camden, N. J. The board of education has purchased a Smith Premier typewriter for use for instruction purpose.



AN ENGLISH SCHOOL-DESK FACTORY.

The above is an illustration copied from an educational journal published in London, representing a school furniture factory, located at Stevenage, Herts, England. The advertisers claim it to be "the most complete manufactory of school furniture in the kingdom." The premises cover two acres of ground. Nearly two hundred men are constantly employed, and much labor-saving machinery used. A number of patterns of school desks and every kind of school apparatus is on exhibition at the show rooms. The Educational Supply Association, Limited, 42 Holborn Viaduct, London.

It is found that in many instances the Antiseptic Slates are superceding the old-fashioned stone slates and paper pads. The Holly Silicate Slate Company's sales has reached to such an enormous figure it has been compelled to increase the capacity of both factories two-fold, the output now being about five thousand framed slates per day.

The most ingenious perpetual calendar that we have ever seen has been devised and published by Mr. C. R. Talcott, 358 Dearborn street, Chicago. The amount of labor and annoyance one could save if we surrounded ourselves with such handy devices as the one above described can hardly be conceived. This calendar is arranged in dial form, with a few adjustments required to attain certain information. We believe that an illustrated circular can be secured gratis by writing Mr. Talcott.

W. C. Toles & Co. report among their sales of vises for manual training during the month, to the Lincoln Institute, Jefferson City, Mo.; Manchester public schools, Manchester, N. H.; State Agricultural College, Ames, Ia.; State Agricultural College, Lansing, Mich.; Chandler & Barber, Boston, Mass., etc.

Saginaw, Mich. A Smith Premier typewriter has been added to those already in use in Saginaw high school.

J. M. Olcott & Co. have received the entire order for general supplies from Laramie, Wyo.

The Cleveland School Furniture Works secured an order for several hundred school desks at Punxsutawney, Pa.

Dayton, O. The board of education has purchased a Smith Premier typewriter for instruction purposes.

Calumet, Mich. Three Smith Premier typewriters have been purchased for use in the public schools.

East Liverpool, O. School supplies were purchased of O. C. Clark & Co., Cleveland.

An order for 2,500 gallons of ink received by J. M. Olcott & Co. for the city schools of Chicago.

The Cleveland School Furniture Works secured contract for school desks at Waterbury, Vt.

The American School Furniture Co. awarded contract for furnishing school desks at Austin, Pa.

The Piqua School Furniture Works secured order amounting to several hundred school desks for the schools at Newport News, Va.

A large order for ink received from the board of education of Utica, N. Y., by J. M. Olcott & Co.

Jefferson, Mich. The board of education has purchased a Smith Premier typewriter for use in the public schools.

The Grand Rapids School Furniture Works secured a nice order for school desks at Erie, Pa. Grand Rapids goods are very popular in Erie.

The Thomas Kane & Co. Works were successful bidders for school desks at Holmes, N. Y.

Mt. Clemens, Mich. Two Smith-Premier typewriters have been purchased for use in the commercial department in the high school.

J. M. Olcott & Co. have received a large order for W. & A. K. Johnston's maps from Pittsburgh, Pa.

The school board of Scholari, N. Y., after a fair explanation of the different school desks made, placed their order with the American School Furniture Co. for Triumph automatic desks.

The board of education of Barre, Vt., awarded a contract for school desks to the Cleveland School Furniture Works.

The Grand Rapids School Furniture Works were awarded contract for school desks at Lisbon, N. Y.

Memphis, Tenn. Contract for 500 desks and sixty rears awarded to the American School Furniture Co. There were four bidders, as follows: Piqua School Furniture Co., Piqua, O.; Moore Manufacturing Co., of Springfield, Mo.; A. H. Andrews Co., of Chicago, and the American School Furniture Co., of Chicago.

J. M. Olcott & Co. have the contract for furnishing maps, globes and all supplies to the state normal school, Charleston, Ill.

The American School Furniture Co. were awarded a nice contract for school desks at Flicksville, Pa.

Seattle, Wash. The board received several bids for the desk contract. Agents of desk companies had their desks on exhibition and explained their good qualities to the board. The bid of Chapman Bros. & Co. was accepted.

J. M. Olcott & Co. have received an order for \$697 worth of general school supplies from the board of education of Pueblo, Colo.

The American School Furniture Co. were the successful bidders on school desks at Leroy, N. Y.

Columbus, O. The board of education has ordered the superintendent of buildings to gather from the garrets and cellars of the various school buildings all the damaged desks and to overhaul them, making them fit for use.

The Cleveland School Furniture Works were given a contract for school desks at Leechburg, Pa.

Niagara Falls, N. Y. A Smith Premier typewriter has been added to the equipment of Niagara university.

La Salle, Ill. The A. H. Andrews Co., of Chicago, has started suit against the La Salle board of education for the purpose of recovering \$250 which the agents of the furniture company retained as commis-

sion. The company, after unavailing efforts to get the amount from its agents, now seek to hold the school board responsible, alleging that, as the contract was made with the Chicago office, the settlement should have been made with the house office and not with the agents.

Pepin, Ill. The board of education has contracted with the Illinois Automatic School Seat Co. for 300 seats for the new school and the Lincoln school.

The American School Furniture Co. secured order for school desks at Gibraltar, Pa.

Kansas City, Mo. W. L. Bell & Co. secured the contract for furnishing certain school desks.

Boone, Ia. Contract closed with A. H. Andrews Co. for adjustable desks.

J. M. Olcott & Co. have received over one hundred separate orders for slate blackboards this year.

The Grand Rapids School Furniture Works were awarded contract for school desks at Skippdel, N. Y.

At a number of school furniture lettings in Michigan, J. W. Hall represented the Haney School Furniture Co., of Grand Rapids, Mich., and James A. Case the Grand Rapids School Furniture Co.

Elizabeth, N. J. The board of education has purchased another Smith Premier typewriter for use in schools.

The American School Furniture Co. sold a nice bill of paragon desks to the school board of Olean, N. Y.

Ephrata, Pa. The board of education had the desks in the Franklin street school re-arranged to provide all the pupils with sitting accommodations, several of the rooms being very much overcrowded.

Orders for Rigg's school registers, published by J. M. Olcott & Co., are pouring in this month. More than 100 cities have adopted Rigg's registers this year.

Milwaukee, Wis. The term for which arrangements were made with the Eagle Pencil Co. to supply the pupils, through the retail dealers, has expired. The board has authorized its supply committee to secure proposals from manufacturers of lead pencils for furnishing the needed supply of lead pencils at guaranteed retail prices for the ensuing five years.

The Piqua School Furniture Works were awarded contract for school desks at Elizabeth, W. Va.

Chicago, Ill. Manual training benches purchased from the United States Desk and Office Fitting Co. Kindergarten material procured from Thomas Charles & Co.

Kautztown, Pa. A Smith Premier typewriter has been added to the equipment of the Keystone state normal school.

Itasca, Wis. Desks for the Winslow school purchased from the American School Furniture Co. The "Victor" desk being selected.

Benton Harbor, Mich. School supplies purchased from the Standard School Furnishing Co.

Indianapolis, Ind. H. B. Dodge & Co., of Chicago, was awarded a contract to furnish school No. 9 with a roller partition.

Marshall, Mo. The school board has had telephones placed in the various school buildings. The charge per phone is but 50 cents a month.

Freeport, Ill. The board of education has purchased a Smith Premier typewriter.

Mansfield, O. Scientific supplies procured from Queen & Co., of Philadelphia, Pa.

Washington, Pa. The Improved Stone Blackboard Co., of New York, equipped several of the school rooms with blackboards.

The board of education of Philadelphia has order of J. M. Olcott & Co. a large number of Parker's new structural maps.

Salt Lake City, Mich. To the School Furniture Co., of Grand Rapids, Mich., was awarded the contract for furnishing 400 desks.

Superior, Wis. The American School Furniture Co., of Chicago, captured the school desk contract.

Chester, Pa. Contract for 175 desks and chair seats went to the American School Supply Co., of Philadelphia.

Philadelphia, Pa. Union college directors have purchased two Smith Premier typewriters for use in that institution.

The Grand Rapids School Furniture Works sold a nice bill of ball-bearing desks at Mont Vale, N. J.

The Wabash Church and School Furniture Works secured a very liberal order for school desks at Altoona, Pa.

Warren, O. Proposition to furnish desks for the new East Market street school made by A. C. Clark & Co. accepted.

Cleveland, O. The board has adopted a resolution approving the use of Holly Antiseptic Slate and Leaflets in the schools.

Racine, Wis. Physical apparatus for the high school purchased from the Chicago Laboratory Supply and Scale Co.

Maquoketa, Ia. Rand, McNally & Co.'s wall maps of the United States have been ordered purchased for the school rooms.

Elkhart, Ind. Davis & Co. was the successful bidder for the school supply contract.

Chicago, Ill. Two bath rooms have been fitted up in the Prescott school.

The Joseph Dixon Crucible Co., of Jersey City, N. J.,



will exhibit their graphite productions at the National Export Exposition, Philadelphia, Sept. 14 to Nov. 30, 1899. It will be located at the southern end of the main exhibition hall, Section M-7. The Dixon people extend a cordial invitation to the school public.

Superior, Wis. The blackboards for the new Blaine school will be furnished by the R. D. Evans Co., of Chicago.

Topeka, Kan. Gillott's vertical pens, Dixon's metropolitan school pencils, and the Eagle school drawing pencils to be used in the schools during the coming year.

Detroit, Mich. The new Western high school is to be equipped with a Frick self-winding clock.

Houston, Tex. Mayor Brashear has notified the board of education that he will order the non-payment of any school supplies unless purchased by him. The board believes that the mayor is entirely unwarranted in assuming the action he threatens, claiming that he has no right to interfere. A rule defining the duties of the board's purchasing committee says: "This committee shall contract under direction of the board for repairs and purchases, and whenever the amount to be purchased shall exceed \$500, bids shall be advertised for, etc. There is nothing in the by-laws providing that the mayor shall order supplies.

Scranton, Pa. The board has made a purchase of a large quantity of Dixon's pencils and also of Eagle pencils. Thomas E. Price was awarded contract for Dixon's erasers.

Albany, N. Y. Contract for repairing blackboards in the high school awarded to W. A. Choate, of Albany.

South Bend, Ind. The contract for blackboards for the Jefferson school was given to the Gregory Talc Blackboard and Crayon Co.

Grand Rapids, Mich. The supply committee has recommended the purchase of four sets of the Rand, McNally & Co.'s physical maps; also two sets of the Central School Supply Co.'s Political relief maps.

The Holly Silicate Slate Co., of New York, has added more machinery to its mills, located at Robertsville, Conn., in order to meet the demand for its antiseptic school slates. The company has received testimonials from nearly all the large school boards throughout the United States and foreign countries. In conversation with Mr. C. S. Coles, president of the company, we learn that a new blackboard is under way and will be placed upon the market by January 1st next. One of the pleasant things to note in connection with the firm's activity is the fact that it has advanced all wages in both its factories 20 per cent.

During the past month we had the pleasure of meeting a member of the firm of Hess & Curtis, of waste poke fame. This firm is located at Warsaw, Ind., where it manufactures the waste pokes which are now being so generally introduced into school room use. The senior member of the firm—happens to be a Miss Hess—a young and handsome woman, who is quite energetic and business-like. She goes out into the field herself whenever she finds it advantageous to do so. Being the inventor of the waste poke, she speaks of them interestingly and convincingly. Several large school supply houses are negotiating to secure state rights for their sale. The partner is also a lady.

Savannah, Ill. The board of education has purchased from the Crowell Apparatus Co., of Indianapolis, Ind., a lot of apparatus for teaching physics in schools. The appliances purchased are used in explaining the laws of heat, light, sound, electricity, the steam engine, and, in fact, every principle in physics. It consists of an air pump, engine, dynamo, and scores of other things.

The J. M. Sauder Co., of Philadelphia, received contracts last month for school furniture at Asheville, N. C., and Marienville, Pa.

J. M. Olcott & Co., of New York and Chicago, are manufacturing the Ideal Pencil Sharpener which sells at \$3.50. Mr. Olcott, in speaking of the sharpener, said: "Anybody who can turn a crank can sharpen a pencil. It will not break the points. A soft blue pencil can be brought to a needle point without breaking. It makes less noise, less dust, and sharpens the pencil quicker and neater than any machine yet devised. Ten revolutions of the crank will sharpen a new pencil. Two revolutions of the crank will sharpen a dull one."

#### School Supply Man Sues.

Chicago. John McKearnan, manager of the school-supply department of the Caxton company, 378 Wabash avenue, has filed suit for damages for \$50,000 against William P. Henneberry of the printing and publishing firm of Donohue & Henneberry. He declares that he has been injured by scandal which he alleges was circulated by Mr. Henneberry. The plaintiff was formerly manager for Donohue & Henneberry. In October, 1898, the plaintiff says statements were published regarding charges of dishonesty and unfair dealing made against him by Mr. Henneberry. He now claims that no attempt was ever made to substantiate those charges in court, and in order to justify himself he has had suit filed by his attorney, Charles L. Mahoney.

#### Big Profits in Tablets.

Minneapolis. The board of education has unwittingly given a monopoly to three Minneapolis concerns, who

are, as a result, enabled to make a magnificent profit at the expense of the general public and of the retailers of school supplies. Six sizes of tablets have been authorized and Leslie & McAfee have been selected to supply two of the sizes, the McClellan Paper Company two others, and the Minneapolis Paper Company the other two. Sizes 1, 2 and 3 are retailed at 5 cents each. Sizes 4 and 5 at 7 cents, and size 6 at 8 cents. The tablets are made of the ordinary glazed paper that has been used in the school tablets in the past, and have a cheap cardboard back and blotter cover. Persons who have dealt largely in paper supplies claim that the 7-cent sizes cost to manufacture about 3 cents. The gross profit on the tablet is therefore a good one. On the same basis the 5-cent tablet must cost the manufacturer about 2 cents. The wholesalers get practically all the profit. They sell the tablets to the retailers at the full retail price, but allow a discount of 20 per cent. Thus the retailer receives one cent for each 5-cent tablet sold, the one cent covering any losses that may be incurred in handling the tablets, and paying for the dealer's time and labor in handling the stock. The wholesaler, however, makes a good profit over the cost of manufacture. The dealers claim that other manufacturers can supply them with tablets equal to the authorized tablets at a lower figure than the trust, and still allow the people who handle them 30 per cent. profit instead of 20.

#### Suit Over School Seats.

Seat backs for use in schools, and duly patented by George Faulhaber in 1884, will be the subject of litigation in the federal court for the western district of Tennessee. The petition has been filed and the case will be tried at Jackson, Tenn., where the defendants to the petition reside. The American School Furniture Co. is the complainant. The defendants are the Southern Seating and Cabinet Co., Moses S. Neely, James J. Losler and Thomas E. Linsley, all of Madison county. The facts as set forth in the petition are that the American School Furniture Co. has become the owner of the patented seat backs by virtue of an assignment of the right to them by George Faulhaber. The petition alleges that Faulhaber procured the patent in 1884, and he was at that time a resident of Cleveland, O. The right to make the particular kind of seat backs was assigned to them in 1895. The petition recites that there have been several attempts at infringement upon their rights, but each time they have appealed to the courts and have been sustained in their claims. They charge that the defendants are making and selling the particular kind of seat backs, and have been using the right which belongs to the complainants for some time. The complainants ask for an injunction restraining the defendants from further infringing upon their rights, and they ask further for judgment for a share of the profits which have accrued as a result of the use of their rights.

#### Antiseptic Slates.

From pedagogical standpoints, as well as on the important ground of economy, slates are approved for school use by many instructors. All recognize, however, the necessity of escape from the germ culture conditions attending upon the use of sponges and saliva to erase slate pencil marks. With the Holly Antiseptic Slates no moisture is required to rub out the pencil marks. On account of this feature these slates received the endorsement of the New York City board of health and were adopted for public school use in New York, Philadelphia and other cities. The distinctive feature of these slates is the quality of "dry erasability." Nevertheless, they are not injuriously affected by moisture and it is among their advantages that they can be readily treated with disinfecting and cleansing fluids.

The Holly Antiseptic Slates need washing occasionally unless used with much greater care than is to be expected in ordinary school work. The grease of perspiration and other dirt gets on the marking surface from the contact of the hand in writing and it is not claimed that dry erasers will remove this with the pencil marks. A dampened sponge or cloth should be used for this purpose when necessary. The slates must not be marked on until dry. No teacher needs any rules as to how often the slates should be washed. It depends entirely upon the scholars, and their teacher knows more about them than any one else.

Directions: Erase marks made with a dry pencil upon a dry slate with the Antiseptic Eraser or a piece of dry cloth or chamois skin. Do not rub out marks with the fingers, either wet or dry.

It is important that teachers should make and enforce strict rules against the use of moisture or saliva on the introduction of the Antiseptic Slates until the proper method of erasing becomes a fixed habit.

#### Where is Bobrick?

Where is Bobrick? This question was asked with frequency two years ago when the Bobrick School Furniture Company of Boston assigned, and the head of the company traveled westward. It was reported that he had gone to the Klondike to retrieve his fortune. Gabriel A. Bobrick had worked industriously in building up a school-furniture trade, but reverses, together

with the ordinary difficulties which beset the trade, compelled him to give up the ship. The writer who also supposed that Mr. Bobrick had gone to the gold region of the far northwest—recently met him quite accidentally in California. It was immediately after the National Educational Association meeting, held at Los Angeles in July, that the writer spent a day at Santa Monica, where he saw Mr. Bobrick leisurely strolling along the ocean beach. He looked happy and prosperous. After leaving the East, Mr. Bobrick came to California and followed mining with his characteristic energy. Having a scientific training, he soon found a start—and in a surprisingly short time was on the road to prosperity once more. He resides at Los Angeles with his family, where he has a comfortable home.

#### Attacks School Supply Agents.

State School Superintendent Kirk of California has issued the following official pronouncement, with reference to the purchase of school supplies:

The agents who go forth into the rural districts are very urbane gentlemen. They unload tons of books and supplies on the country schools, and the way they do it is an art. They will go to Jones and get a halfway indorsement of their scheme. Possibly Jones is busy in his field, but as he is a school director or trustee as well, he has to give ear to the public business. Finally Jones says, just to get rid of the agent: "If it suits the others, you may count me in." Then the agent hurries over to see Trustee Brown.

"Mr. Brown," he will say, "I have a good thing to show you. Jones says it's all right." Finally Brown concludes to stand by Jones' judgment, and he subscribes. The ball once started rolling, the work is then easy. The goods are ordered and paid for, and the sale has been rushed through without any rational consideration.

Orders for supplies and other demands upon the funds of a school district must be made at a meeting of the board. It is illegal to get first one trustee's consent and then another, outside of a meeting of the board.

But a meeting and a majority vote of the board are necessary to legalize any purchase or order involving expenditure of the funds of the district.

Waste of funds and supplies very frequently results from failure to observe the above-mentioned plain provision of the law.

An agent goes over the country, meets one school-trustee busy on his farm; gets a partial acquiescence for the purchase of sundry supplies; goes to another trustee, and obtains consent to send to the district a lot of books, stationery, furniture or like supplies, the bill or order for which he, the agent, frequently makes out himself, gets the second trustee to sign an order on the county superintendent, returns to the first trustee, secures his signature, and the transaction is completed.

While Mr. Kirk is thus alert in advising the district school boards, it seems that the state educational department which he represents is in need of some counsel. He has been unable to supply the most necessary blanks and has in consequence issued the following circular:

It is the duty of this officer to have printed and to distribute the schools laws of the State, and to have printed all blank books and reports required by county superintendents, teachers, school trustees and other authorities in the discharge of their public school duties. It is hoped that the fund available for printing would permit both the two large items, teachers' registers and school laws, but it now seems impossible to secure the latter. The adopted method is inflexible in that it will not permit any portion of the sum appropriated for the second fiscal year to be used for the first. All that can now be expected on school law will be a few pages or leaflets giving the school amendments since 1895.

#### Stereopticon for Schools.

The cost of the stereopticon for projection work has been the one stumbling block to the more general use of this method of instruction. Recent developments in lanterns for this work have in a great degree lessened this difficulty; especially is this true in schools already provided with the electric current. The projection outfit made by the L. E. Knott Apparatus Co., listed at \$50, surely has many features which will commend it to those who are accustomed to projection work. This price includes the lantern with electric light, lenses, rheostat, and, in fact, the entire outfit with the exception of the slides to be projected.

#### Prison-Made School Seats.

Four months ago 120 chairs were shipped from Auburn prison in response to an order from the board of education of Long Island City. They were sent by freight. On their arrival at their destination nearly all of them were found to be broken, and they have just been sent back by express. A full investigation of the matter would seem necessary, as several curious questions are involved, among them the following: Is school room furniture so poorly made at Auburn prison that it will not stand ordinary handling; is such furniture handled with less care than other goods by railway employees; were the chairs in question in some freight train wreck; or were they intentionally broken by some persons opposed to prison labor?



## Book Reviews.

OUR NAVY IN TIME OF WAR. By Franklin Matthews. Published by D. Appleton & Co., New York, Chicago.

The American navy has a glorious and thrilling history. The chief events of its deeds from 1861 to 1898 are given in this volume, together with elaborate illustrations, and their significance is brought out in a readable manner, adapted especially for young readers, though it will prove equally interesting to anyone who is proud of American prowess on the seas, regardless of age. The period of the navy's history covered by the author has been selected not because there was greater glory in the deeds of the navy in the civil war and the war with Spain than in the earlier days of the service, but chiefly because the types of vessels and guns now in general use throughout the world were begun and developed in part during the American civil war. The armor, the turreted battleships, the swift cruiser, the rifled guns of today were the direct outgrowth of the civil war. The wooden war ship and the smooth-bore guns were doomed as the result of that conflict. The battleship of 1898 is simply the turreted monitor and the armored battleship of 1863 combined and improved. The volume makes another valuable addition to the Appleton's Home Reading Books.

A FIRST GREEK BOOK, with references to the grammars of Hadley-Allen and Goodwin. By L. L. Forman, Ph.D., Instructor in Greek in Cornell University. 160 pages. Published by Harper & Brothers, New York, Chicago.

This work covers the first year's work in Greek. It does not pretend to be an easy route, with literary pleasures, but an earnest, compact and disciplinary language work. The difficulties which confront the beginner in Greek are so many—strange characters, accents, varieties of inflection in the first declension, totally new vocabulary, and so on, that an attempt has been made to present these difficulties singly. First, by giving a reading exercise in words already known (Alcibiades, Demosthenes, etc.); second, by teaching the O-Declension, which is simple, before the A-Declension, which is varied—a plan long practiced by experienced teachers; third, by grouping words according to their accent and offering drill on each group separately (oxytones, paroxytones, etc.).

TARBELL'S LESSONS IN LANGUAGE AND GRAMMAR. Book 1 and 2. By Horace S. Tarbell, LL.D., Superintendent of Schools, Providence, R. I., and Martha Tarbell, Ph.D. Published by Ginn & Co., Boston, New York, Chicago.

Mr. Tarbell explains at the beginning of Book 2 that the term "language" as used in the title of this book has reference to those forms of training which give facility and accuracy in oral or written composition. The correct use of English—in brief, composition—is the central thought throughout the book. Letter writing, description, narration, essays, style, synonyms, etc., take up about half of the book, while the balance is devoted to grammar and to punctuation. One chapter is devoted to "A Study of Longfellow," and another to "Secretarial Writings." While both chapters may be regarded as innovations, they are, nevertheless, consistent with the work and are not without their specific as well as general value.

Book 1 is, of course, simpler and smaller in form. Expressive illustrations are supplied, and the pupil is asked to write out the story that may be suggested. Other valuable features are introduced.

HALL'S MATHEMATICAL SERIES—THE ELEMENTARY ARITHMETIC. By Frank H. Hall. Cloth, 248 pages, 35 cents. And the Complete Arithmetic. By Frank H. Hall. Cloth, 448 pages, 60 cents. Published by the Werner School

Book Co., New York, Chicago and Boston.

Hall's Mathematical Series, or the Werner Arithmetics, embrace two courses—the three-book course and the two-book course. This arrangement was undoubtedly made to meet the demands of graded and ungraded schools. The subject-matter, however, is practically the same in both courses.

The books will meet with favor. They are thoroughly practical and the methods employed are all based on sound pedagogical and psychological principles. The latter is a marked feature of this series. They are veritable teachers in themselves; so that even if placed in the hands of poor teachers, good results can follow. The books excel not only in the character and arrangement of the subject matter, but also in their mechanical finish. The problems are up-to-date, fresh and crisp. The work is graded to the ability of the pupil; he advances step by step, spirally, one might say, returning often to the self-same subjects, which is naught else than "repetition—the mother of studies." Arithmetic, which is ordinarily a dry, uninteresting study, can, by the use of these books, be made attractive and interesting. F. L.

SELECTIONS FROM EDMUND AND JULES DE GONCOURT. By Arnold Guyot Cameron, A.M., Ph.D., Professor of French in the John C. Green School of Science of Princeton University. Cloth, 12mo, 352 pages, with portraits of authors. Price \$1.25. American Book Co., New York, Cincinnati and Chicago.

It is claimed for this volume as being the first annotated edition of the writings of the Goncourts ever presented to English or American readers. The selections, when not in themselves independent passages, constitute entire units and practically follow the order of their original appearance. They cover the different types and periods of their authors' production and show the marvelous extent of the field in which the gifted brothers worked. The brilliancy and power of style, the wealth of vocabulary and allusions, and the interest and attractiveness of the subjects, make these selections especially useful for advanced students in French.

LAIRD & LEE'S ENGLISH-FRENCH AND FRENCH-ENGLISH VEST POCKET DICTIONARY. By Max Maury. Published by Laird & Lee, Chicago. Price, cloth, 25 cents; leather, full gilt, 50 cents.

This lexicon is a very complete and comprehensive work. The author has gathered over 60,000 words and meanings and a large number of idiomatic expressions of the greatest use to travelers and students. He also gives an exhaustive treatise on French pronunciation and a clear summary of French grammar. Among the attractions of this little volume are vocabularies of geographical and proper names, tables of weights, measures and moneys, and comparative scales of thermometers. The book has two indexes, and its general make-up excels anything heretofore accomplished in that line.

THE CARPETBAGGER. By Opie Read and Frank Pixley. 12mo, art cloth, gilt top, uncut edges. Illustrated from life. Published by Laird & Lee, Chicago. Price \$1.

The hero of this story is a Northern auctioneer who has become a Southern governor. He is a type of the carpetbagger that infested the South immediately after the war. He is unscrupulous, brave, full of natural wit—a creature of circumstances who redeemed himself in the end. The story is briskly told, the plot is original, the dialogue direct and spirited, the characters natural and attractive. At one period of the story a female lobbyist is introduced. She is supposed to represent a school book publishing house, and proceeds to all the arts of a bold, bad lobbyist.

A fine Southern atmosphere breathes through

the whole story and reminds one of Opie Read's other stories.

LOGIC AND ARGUMENT. By James H. Hyslop. 249 pages. Price 75 cents. Published by Charles Scribner's Sons, New York.

The author has prepared this volume with the thought in mind that the elements of formal and applied logic can be taught in the earlier as well as in the latter part of a collegiate course, so that the student can receive the benefit of it throughout his whole academic career. Thus the purely elementary logic is combined with the art of argumentative discourse and forms, indeed, a valuable aid to the student who is asked to enter discussion or debate. Besides this it forms the basis for advanced work in both logic and argument.

FOR STUDENT DAYS AND BIRTHDAYS. By Edith A. Sawyer. Published by Benj. H. Sanborn & Co., Boston.

Three lines cover the preface to the book. These are: "To be a suggestion, wise or loving, for each day; to be a record wherein birthdays may be kept the years to come, is the twofold purpose of this book." It is a book of quotations arranged by the days of the month, and months of the year, alternating with blank pages. Under every date appear the names of great personages; prose and poetic selections follow.

THE TWENTIETH CENTURY ARITHMETIC. Arithmetical Computations and Business Calculations by Modern Methods. Philosophical in Arrangement, Natural in Progressiveness, and Practical in Application. By Francis M. Woods. Published by the Educational Association, Chicago.

The author has avoided all pedagogical dreams and has entered the heart of his subject in a direct and practical manner. He has had in mind the lad that leaves the school room at the age of twelve or fourteen, never to enter again. To render to this boy most the useful equipment in arithmetic has been his aim. And we believe he has succeeded.

The book aims at mental discipline; second, at a preparation for the duties of daily life; third, a foundation for higher mathematics. Practical arithmetic is demonstrated in problems and examples; fractions and decimal fractions are lucidly presented, while the various arithmetical questions arising in commercial and ordinary life are represented in business men's methods. The book is illustrated, so that



First Tramp—You look like a pedagogue in that coat.

Second Tramp—Well, I ought to. I took it at a restaurant where nobody but professors eat.



any lesson that might otherwise become intricate to the students is absolutely plain.

**THE HEART OF A BOY (Cuore).** By Edmonds De Amicis. Translated from the 224th Italian edition. By Prof. G. Mantellini. Published by Laird & Lee, Chicago. Price \$1.25.

This book gives a history of a school year in a public school in Italy. It is a schoolboy's journal which relates the every-day experiences inside and outside of the school. The reading is very enjoyable, as it is captivating from cover to cover. Prominent educators have made the acknowledgment that the book exercises a wholesome effect on the morals of children when read by them or to them. This edition is very handsome in its make-up, containing a number of the finest illustrations of famous Italian artists, many of them full-page half-tone engravings. The book will make a splendid holiday gift for any child, and is well worthy a place in every library.

#### A PRACTICAL COURSE IN MECHANICAL DRAWING.

By Wm. Fox, M.E., and Charles W. Thomas, M.E. With numerous illustrations. 98 pages. Published by D. Van Nostrand & Co., New York.

This book does not begin with geometric problems, as has been the rule with similar works. The author believes that geometry should not be introduced here until its use is understood and appreciated. The object of the work is to provide a practical course in mechanical drawing, to be taught with the use of models instead of sketches and pictorial illustrations, although this is not an essential feature. The course outlined in this work is well adapted for high schools.

#### New Books Received.

International Education Series. Montaigne The Education of Children. Selected, translated and annotated by L. E. Rector, Ph. D.; 191 pages. Published by D. Appleton & Co., New York.

Pott-Royal Education. A sketch of its history with extracts from its leading authors. Edited by Felix Cadet, French inspector general of public instruction. 406 pages, illustrated. Price, \$1.50. Published by C. W. Bardeen, Syracuse, N. Y.

The Carpetbagger. A novel, by Ople Read and Frank Pixley. Other stories by Ople Read: Old Ebenezer, My Young Master, On the Suwanee River, A Kentucky Colonel, A Tennessee Judge, The Jucklins, etc.; 304 pages, illustrated. Published by Laird & Lee, Chicago. Price, \$1.

The Young Citizen, by Charles F. Dole, author of The American Citizen; 194 pages, illustrated. Published by D. C. Heath & Co., Boston. Price, 45c.

Maury's Geographical Series. Manual of Geography. A treatise on mathematical, physical and political geography by M. F. Maury, L.L.D., author of Physical Geography of the Sea, and late superintendent of the National Observatory, Washington, D. C. Revised; 132 pages. Published by the University Publishing Co., New York, Boston, New Orleans.

Heath's English Classics. George Elliot's Silas Marner. The Weaver of Ravelee. With an introduction by George Armstrong Wauchope, M.A., Ph.D., associate professor of English in South Carolina college; 259 pages, illustrated. Published by D. C. Heath & Co., Boston. Price 40c.

New Higher Algebra, by Webster Wells, S.B., professor of mathematics in the Massachusetts Institute of Technology; 446 pages. Published by D. C. Heath & Co., Boston. Price, \$1.32.

Twentieth Century Text Books. Plant Relations. A first book of botany by John M. Coulter, A.M., Ph.D., head professor of botany, University of Chicago; 264 pages, illustrated. Published by D. Appleton & Co., New York. Price, \$1.10.

Webster's Collegiate Dictionary. A dictionary of the English language, giving the derivations, pronunciations, definitions and synonyms of a large vocabulary of the words occurring in literature, art, science and the common speech, with an appendix containing a copious Scotch glossary, a pronouncing vocabulary of proper names and various other useful tables. Mainly abridged from Webster's National dictionary; 1060 pages, with over 1,100 illustrations. Published by G. & C. Merriam Co., Springfield, Mass.

Advanced Arithmetic, by William W. Speer, district superintendent of schools, Chicago; 261 pages, illustrated. Published by Ginn & Co., Boston.

A First Greek Book. With references to the grammars of Hadley-Allen and Goodwin, by L. L. Forman, Ph.D., instructor in Greek in Cornell University; 160

## A School Latin Grammar

Professor Morgan's "School Latin Grammar," based on Lane's Latin Grammar, is intended to meet completely the requirements of the student in secondary schools. Scholarly breadth and accuracy are combined with a conciseness which makes the book clear and "teachable." \$1 00. Introduction 80c.

**HARPER & BROTHERS, Franklin Square, New York City,**

W. S. RUSSELL, 203-207 Michigan Avenue, Chicago, Ill.  
General Western Agent for the introduction of Harper & Brothers' Text Books.

pages. Published by Harper & Bros., New York.

The Wooster Primer, by Lizzie E. Wooster; 96 pages, illustrated. Published by Crane & Co., Topeka, Kas.

A Practical Course in Mechanical Drawing, by William Fox, M. E., assistant professor of applied mathematics, College of the City of New York, and Charles W. Thomas, M. E., member of the A. S. M. E., instructor in descriptive geometry and drawing, College of the City of New York. With numerous illustrations; 98 pages. Published by D. VanNostrand Company, New York.

Columbus Series. Third Reading Book, by W. T. Vlymen, Ph.D.; 256 pages, illustrated. Published by Schwartz, Klrwin & Fauss, New York.

Lobo, Ray and Vixen and Pictures, by Ernest Seton Thompson, author of Wild Animals I Have Known, Art Anatomy of Animals, etc. Being the personal history of Lobo, Redruff, Raggybug, and Vixen; 147 pages, illustrated. Published by Chas. Scribner's Sons, New York. Price, 60c.

Logic and Argument, by James H. Hyslop; 249 pages. Published by Chas. Scribner's Sons, New York. Price, 75 cents.

Practical Public Speaking. A text book for colleges and secondary schools, by S. H. Clark and F. M. Blanchard, University of Chicago; 301 pages. Published by Chas. Scribner's Sons, New York. Price, \$1.

Lessons in Language and Grammar. Book 2, by Horace S. Tarbell, LL. D., superintendent of schools, Providence, R. I., and Martha Tarbell, Ph. D.; 331 pages. Published by Ginn & Company, Boston.

Leandro Fernandez Moratin. El Si De Las Ninas. A Comedy in Three Acts. Edited with a biographical notice, explanatory notes and a Spanish-English vocabulary, by Eduardo Tolra Y Fornes, professor Normal University of Barcelona; 111 pages. Price, 50c. Published by D. Appleton & Company, New York.

Cervantes. El Cautivo. An episode from Don Quixote. Text based on the edition of the Royal Spanish Academy. Edited, with an introduction, grammatical and explanatory notes and a Spanish-English vocabulary, by Eduardo Tolra Y Fornes, professor Normal University of Barcelona; 121 pages. Price, 50c. Published by D. Appleton & Company, New York.

The Language-Speller. A correlation of language work with spelling, by Elizabeth H. Spalding, teacher of English in Pratt Institute, Brooklyn, author of The Problem of Elementary Composition, and Frank R. Moore, formerly principal of grammar school No. 34, Brooklyn. Part I; 112 pages. Published by The H. P. Smith Publishing Company, New York.

The Remington Typewriter Manual. Third edition; being an entirely new issue of the Manual of the Typewriter. Large post 4to. (8x10 1-4 in.), with numerous illustrations, and 36 full-size fac-simile exercises. This work is adapted to any typewriter with the universal keyboard; 64 pages. Price, stiff boards, 25c; cloth, 50c. Published by Isaac Pitman & Sons, New York.

The Teaching Botanist. A manual of information upon botanical instruction, together with outlines and directions for a comprehensive elementary course, by William F. Gangong, Ph.D., professor of botany in Smith College; 270 pages, illustrated. Published by The MacMillan Company, New York. Price, \$1.10.

Heine's Prose, with Introduction and Notes, by Albert B. Faust, Ph. D., associate professor of German in Wesleyan University; 332 pages. Published by The MacMillan Company, New York.

Romans Choisis. Madame Lambelle. Ouvrage Couronne Par L'Academie Francaise, par Gustave Toudouze; 314 pages. Published by William R. Jenkins, New York. Price, 60c.

The Algebraic Solution of Equations of Any Degree. A novel, simple and direct method for the solution of equations of the ninth degree, by L. A. Buchanan, M.E., instructor in industrial education for the City of Stock-

ton. Former principal of the Cogswell Polytechnic College, instructor in the shop work in the Leland Stanford Junior University; and J. Lewis Andre, graduate of the Polytechnic High School and the Cogswell Polytechnic College, San Francisco, Cal.; 60 pages. Published for the authors by The Whitaker & Ray Company, San Francisco.

The Articles of Confederation. Re-arranged for class study, by Frederick A. Cleveland, fellow of political science, University of Chicago; 16 pages.

The Constitution of the United States. Re-arranged for class study, by Frederick A. Cleveland, fellow of political science, University of Chicago; 29 pages.

The Constitution of France. Re-arranged for class study, by Frederick A. Cleveland, fellow of political science, University of Chicago; 29 pages.

The Constitution of Switzerland. Re-arranged for class study, by Frederick A. Cleveland, fellow of political science, University of Chicago; 37 pages.

The above books are published by Benj. H. Sanborn & Company, Boston. Price, 15c each.

Stereoscopic Views of Solid Geometry Figures, with reference to Well's Essentials of Solid Geometry. Published by D. C. Heath & Company, Boston. Price, 60c.

A Plain Talk About the Kindergarten; 22 pages. Published by the Milton-Bradley Company, Springfield, Massachusetts.

Second Year Latin. Part I. Miscellaneous selections of Easy Latin. Part II. Selections from Caesar's Gallic War. Edited by James B. Greenough, Benjamin L. D'Ooge and M. Grant Daniell; 497 pages, illustrated. With vocabulary of 188 pages. Published by Ginn & Company, Boston.

Pitman's Rapid Series. Pitman's Practical Spanish Grammar, with conversations and copious vocabulary, and imitated pronunciation. An entirely new and interesting method of learning Spanish, by Don Baltasar Vitoria and W. G. Isbister, B.A.; 107 pages. Published by Isaac Pitman & Sons, New York. Price, paper boards, Cr. 8vo., 112 pages, 40c; cloth, 50c; postpaid.

A Course in Argumentative Writing, by Gertrude Buck, Ph. D.; 206 pages, illustrated. Published by Henry Holt & Company, New York. Price, 80c.

Two Chums. The story of a boy and his dog, by Minerva Thorpe; 230 pages, illustrated. Published by Laird & Lee, Chicago. Bound in cloth, \$1.

#### Magazines Received.

Harper's Magazine for October. Published by Harper & Brothers, New York. Price, 35c.

Century Magazine for October. Published by The Century Company, New York City. Price, 35c.

Scribner's Magazine for October. Published by Chas. Scribners & Sons, New York. Price, 25c.

Cosmopolitan for October. Edited by John Brisson Walker. Published by the Cosmopolitan Company. Price, 10c.

Forum for October. Edited by J. M. Rice. Published by The Forum Publishing Company. Price, 35c.

American Monthly Review of Reviews for October. Edited by Albert Shaw. Published by The Review of Reviews Company, New York. Price, 25c.

Atlantic Monthly for October. Published by Houghton, Mifflin & Company, New York. Price, 35c.

Arena for October. Published by The Arena Publishing Company, Boston. Price, 25c.

Lippincott's Monthly for October. Published by J. B. Lippincott Company, Philadelphia. Price, 25c.

Kindergarten Review for October. Published by the Milton-Bradley Company, Springfield, Mass. Price, 20c.

The Nickell for October. Published by The Nickell Magazine Company, Boston. Price, 5c.

Designer for October. Published by The Standard Fashion Company, New York. Price, 10c.

Dramatic Magazine for October. Published by the Dramatic Magazine Press, 356 Dearborn street, Chicago. Price, 25c.

Guntton's Magazine for October. Published by the Guntton Company, Union Square, New York. Price, 25c.





## Missouri Bookmen.

Editor School Board Journal:

In your recent number you said some pleasant things about Minnesota bookmen. Turn your head a peg or two southward and listen to what we have in the great state of "Mizzoura." I don't mean exactly what we have been in the way of bookmen, but rather what we get from time to time. Bookmen do not grow on our soil. They flit in from adjoining states, nest a while, and then scatter again.

The state text book adoption in the summer of '97 brought the first galaxy of "advocates" this state, or for that matter, any other, has ever seen. Portly and dignified men like W. S. Smyth, as well as little men like J. N. Patrick, were gathered at Jefferson City. We had the pleasure of looking at the sturdy J. D. Williams, the princely Dr. F. S. Sevenoake, the tall J. F. McCullough, the athletic T. W. Gilson, the little Napoleon W. J. Button, the spare Sibley, as well as the corpulent Phebus, the red-cheeked Newkirk, and the pale-faced Ashbaugh—all in shirt sleeves, with the thermometer 100 in the shade. Then we remember the patient L. E. Loveridge, the jovial F. D. Curtis, the gallant John C. Ellis, the energetic Geo. A. Bacon, the witty F. J. Albrecht, the military Capt. J. A. Bowen, and a host of others. All came to perspire and secure adoptions. Some got both.

But I started out to tell about those who come here more habitually, and not the special holiday guests.

Let me begin with Hassett—because he really lives in the state. He is the only bookman who ever became acclimated. He resides at St. Louis, prefixes his name with the initials W. E., and advocates, promotes and preaches the publications of the American Book Co.

Hassett is the grizzly bear among bookmen. He resembles the late Bismarck—only he is better looking by far than the German statesman. His stern countenance, the gray eyebrows and mustache—all give the impression of a severe disposition. Not so, however: The warmth which beams from that face radiates into the hearts of those who get near him. His voice has a kindly ring, and when it tells a story, general mirth follows. I said Hassett was a grizzly bear. I mean this in the sense that he is gray,

strong and fearless. He looks after the interests of his house in a faithful, untiring and intelligent manner.

Then there is Pemberton, who comes over from Kansas, where he lives. I don't know how far within the confines of that state he has taken up his habitation, but somehow he manages to keep posted and is on hand whenever anything goes on here and jumps into Missouri. R. M. Pemberton represents D. C. Heath & Co., and does his work well. He covers, I am told, several southwestern states. Pemberton is young, strong and good looking. He may be classified among the blondes. He has been in the field for some years and manages not only to protect, but also to promote the interests of his house.

E. G. Lyle, who used to cover this state for D. C. Heath & Co., retired about a year ago, to conduct a fruit farm in the southern part of the state. Lyle enjoys his present occupation better than "advocating" books. He is interested in a 4,000-acre orchard. The crops last year were good, prices high—and if this keeps on Lyle will establish a book house just for fun—to boss the agents and see how it feels to be a manager.

There is one agent who comes here and who inspires an ordinary mortal on first appearance with fear. This is because of his enormous size. J. M. Hunt stands six feet in his stockings. When you once get a chance to look him squarely in the face all fear, however, vanishes. There is a kindly expression that puts you entirely at ease. Hunt represents Sheldon & Co. He comes here semi-occasionally—talks books only when agreeable to his listeners. His listeners never regret having heard him talk.

Now I want to tell you something about a man who is a sort of cross between a bookman and school supply man. He is, perhaps, both. I mean H. O. Palen, of Kansas City. He represents the Milton-Bradley Co., the great kindergarten supply house. They are publishers as well as manufacturers. Palen, therefore, is not only a man who looks after the sale of kindergarten supplies, but an educator who can discuss convincingly the value of a kindergarten training. Brother Palen is still a young man, being somewhere between thirty and forty—looks a Frenchman and acts like a Yankee. He wears a black beard, clipped to a point, and has a brisk, energetic manner. He is wide-awake, and constantly alive to the interests of his house.

There was in the state recently—and perhaps still is—a representative of the J. B. Lippincott Co. His name is H. G. Prentice. I have not as yet met him, but I am told that he is a hummer who will be heard from. He has some good books and displays great ability in presenting them.



Young Bookman—So the school board reduced your salary. That's hard luck. Made you feel mad, didn't it?

Miss Primary—No, but it made me feel cheap.

Mr. C. W. Turner, representing Silver, Burdett & Co., of Chicago, in an interview recently,



CHAS. W. TURNER,  
Agt. Silver, Burdett & Co.,  
Lincoln, Neb.

stated that his observation is that throughout the country educators are taking much pains in the selection of books. In the primary grades, and in the higher grades as well, he says that the greatest care is taken to combine all the most clever plans and ideas for the pupils' instruction in the simplest manner. There is no longer an old beaten track which educators follow blindly. They are up-to-date, and if a supply house wants to sell a school district anything in the line of books, there is sure to be competition.

# MAURY'S MANUAL OF GEOGRAPHY.

New 1899 Edition.

It is thoroughly up to date in text and maps.

It has a large number of new pictures, each of which instructs as well as illustrates.

The recently acquired Island Regions of the United States are graphically presented in text, illustrations and maps. These are treated under the United States and not in a supplement.

A new supplement contains much interesting and valuable fresh geographical information, including text and map of the Samoan Islands.

Maury's ideas and method of teaching geography were, when first presented, in advance of the times. They are to-day accepted by a large proportion of thoughtful educators throughout the country as psychologically correct. After a brief presentation of the underlying principles of mathematical, physical and political geography, each section of the earth is taught in detail, and finally, after the pupil has mastered these details, he is led by a carefully constructed series of review studies to look at the earth as a whole—as a unit. This is the true pedagogical method.

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43-47 E. Tenth Street, New York.



## New Home for Publishers.

There has been a tendency during the past few years among educational publishers in Chicago to group themselves in certain localities, and more specially in certain buildings. Thus it has come to pass that nearly all the educational publishers of Chicago and the Western representatives of Eastern publishers are now grouped in three buildings. The American Book Co. has its offices in the Ludington block on Wabash avenue, while a number of publishers are located in the Studebaker building in the same vicinity.

The third and last building which has undertaken to house and shelter school books, their publishers and managers, is the Fine Arts building, located on Michigan avenue, near the Auditorium building. The concerns that are located in this building are: Prang Educational Co., William S. Mack, Western manager; Harper & Brothers, W. S. Russell, Western manager; D. Appleton & Co., Henry M. Echlin, Western manager; Maynard, Merrill & Co., J. D. Williams, Western manager; Eaton & Co., Ira T. Eaton, manager; Wheeler & Co., W. H. Wheeler, manager; Audubon Publishing Co., Mr. Stees, manager; C. W. Bardeen, represented by W. A. Mumford.

The building, of which we show a small illustration, fronts Lake Michigan and is afforded an unobstructed view of that fine sheet of water. Those visiting Chicago can reach the Fine Arts building readily from any depot. It is located near the principal hotels and leading public buildings. Michigan avenue runs parallel with Wabash avenue and State street, and is the first street from the lake.

## "The One Man Power."

The growing tendency among school boards to shift the duties of their office to the city superintendent will often work the greatest injustice, and give opportunity to that officer to exercise his personal prejudices to the fullest extent. The duty of the school board, as understood by the public, is to see that the people's money for school purposes is expended for the most public good without regard to personal interests. It sometimes occurs (especially in the case of a weak and incompetent superintendent, who holds his place by means of "pull," political or otherwise,) that some of his teachers are superior in qualifications, and for fear that his position may become endangered, will make use of this power to remove such dangerous obstructions to his personal ambitions.

A case which occurred last year in one of the larger cities of Iowa will illustrate the injustice of too much "one-man power." About the middle of the year a high school principal resigned, and the principal of a ward building was pro-

moted to the place, while a man from the state normal school was tendered the place thus made vacant in the ward. All goes well until the election of teachers for next year, when it is suddenly discovered that the high school principal is "not satisfactory," and must be returned to his former position, at \$10 per month more than the new man received. Although the new man was considered a thoroughly successful school principal and teacher, and was the only teacher in the city besides the superintendent with state papers, he was the only one left out at the election, and received his first knowledge of the change from a morning paper; showing beyond a reasonable doubt a case of pure policy work. The selection of teachers should be the duty of an honest, fair-minded school board, or at least the recommendations of the superintendent should be thoroughly investigated by each individual member of the board.

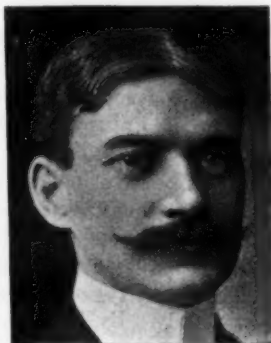
M. R. TIMMERMAN.

## Association of School Boards.

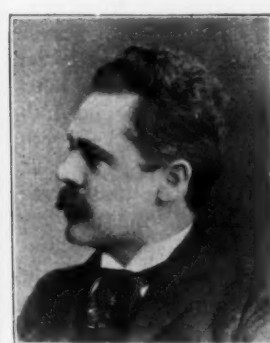
The New York State Association of School Boards will convene at Poughkeepsie Thursday and Friday, October 18 and 19. Among the topics to be considered are School Board Imperialism; City School Boards and Non-Resident Pupils; School House Architecture; Proper Responsibilities of School Boards; The School Board and the Press; Should School Boards be Bi-Partisan or Non-Partisan? Manual Training, Its Purpose and Value; Relation of School Board and the Teachers; Relation of School Board and the Pupils; Salaries Paid to Male and Female Teachers Holding Similar Grades; Duties of School Superintendents; School Supplies and Equipment; Non-Resident Tuition Fees; Free Text Books; Shall Teachers be Pensioned? The Proper Basis for a Schedule and Classification of Teachers' Salaries; The Influence of Politics Upon School Administration; A Model City School Board.



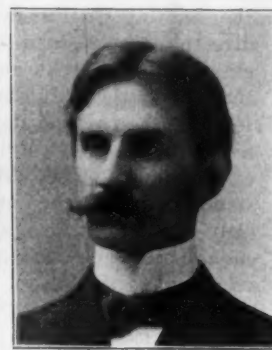
IRA T. EATON,  
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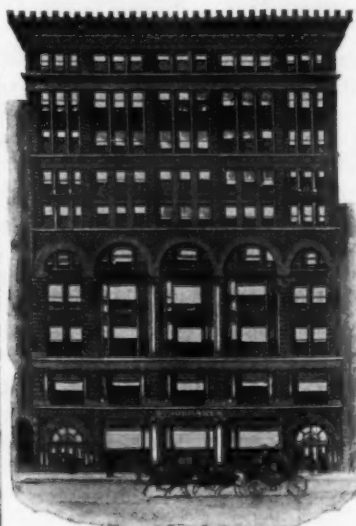
WM. S. MACK,  
W. Mgr. Prang Edu. Co.



W. S. RUSSELL,  
W. Mgr. Harper & Bros.



J. D. WILLIAMS,  
W. Mgr. Maynard, Merrill & Co.



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### Book Reviews.

**PRACTICAL PUBLIC SPEAKING.** A Text Book for Colleges and Secondary Schools. By S. H. Clark and F. M. Blanchard, of the University of Chicago. 300 pages. Price \$1. Published by Charles Scribner's Sons, New York, Chicago.

This work is differently arranged from anything on this subject that we have seen. Under the heading of Fundamentals are emphasized directness, earnestness and dignity, and copious extracts from great orators are reproduced to show how these fundamentals have been observed. A study of detail is given, as well as several chapters on style of delivery and forms of discourse. The lesson proper in each instance is brief—very brief. The speeches, discourses and orations are numerous—and long enough in each instance to demonstrate the argument of the lesson.

**INTRODUCTORY FRENCH PROSE COMPOSITION.** By Victor E. Francois, Instructor in French in the University of Michigan. Boards, 12mo, 94 pages. Price 25 cents. American Book Co., New York, Cincinnati and Chicago.

Students who have already gained some knowledge of French grammar, after the first year in the high school or the first semester in college, may employ this book with satisfactory results. Some of the distinctive features of the book are: The natural plan and treatment of the exercises and lessons; Part I being arranged in the form of an original narrative under the title of "En Route," and Part II in the form of a connected story, thus maintaining unity of thought and interest throughout the reading lessons. Progressive grammar exercises in connection with a thorough review of the subjects indicated at the head of the French text.

**THE SCIENCE AND ART OF PENMANSHIP.** A Text Book for Schools and the Home. By G. W. Henderson, M.D. 256 pages. Published by G. W. Henderson & Son, West Cairo, Allen Co., Ohio.

This contribution to the pedagogical literature on penmanship deserves attention. It aims to treat the subject comprehensively—give all the information necessary, teach all that ought to be taught—and does this in a methodical, concise and direct manner. The history of penmanship forms the opening chapter and is briefly told. This is followed by chapters on Position, Analysis and Synthesis, Movement, Execution, Spacing and Shading, General Practice or Production and Drawing, Capitalization,

Italics and Abbreviations, Punctuation, Letter Writing and Business Forms, and Narcotics. Suitable questions follow each topic.

Teachers of penmanship will find it a useful book, equipping them readily to present the lessons intelligently, and enabling them to teach the science as well

as the art of penmanship in an effective manner.

**THE WOOSTER PRIMER.** By Lizzie E. Wooster. 96 pages. Published by Crane & Co., Topeka, Kan.

This primer is certainly among the most attractive now in the market. The illustrations are in color and in black—half-tone and line sketches. The text is simple, well chosen and well arranged. The experienced hand of the teacher courses through the entire book.

**The Articles of Confederation.** Re-arranged for class study. By Frederick A. Cleveland, Fellow of Political Science, the University of Chicago. 16 pages.

**The Constitution of the United States.** Re-arranged for class study. By Frederick A. Cleveland, Fellow of Political Science, the University of Chicago. 29 pages.

**The Constitution of France.** Re-arranged for class study. By Frederick A. Cleveland, Fellow of Political Science, the University of Chicago. 29 pages.

**The Constitution of Switzerland.** Re-arranged for class study. By Frederick A. Cleveland, Fellow of Political Science, the University of Chicago. 37 pages.

These four booklets are published by Benj. H. Sanborn & Co., Boston. Price 15 cents each.

The purpose of these booklets is to present to students and instructors of government and politics an orderly and logical arrangement of parts—to preserve every meaning of each instrument intact, and at the same time to so co-ordinate its clauses as to make it of greatest service. The complete series includes the American federal documents, the constitutions of the American states, and the constitutions of the leading foreign nations, as follows: American Federal Documents—(a) The Constitution of the United States; (b) The Articles of Confederation. The American State Constitutions—(a) Illinois; (b) New York; (c) Massachusetts and others. Foreign Constitutions—(a) France; (b) Germany; (c) Switzerland.

### TEXT BOOK NEWS.

Much criticism has already been directed against "Lee's History," which has been adopted for the public schools of Tennessee. Some of the false statements which it is said to contain are these:

That John H. Morgan was betrayed by the family he was stopping with in Greenville and that he was shot down in cold blood after he had surrendered. That Columbia, S. C., was burned by the Federal forces. That the Federal loss during the war was 1,200,000. That Jefferson Davis was kept in irons in a damp dungeon, insufficiently clothed and fed. The terms "carpetbagger" and "scalawag" are used as though they were proper terms to teach the children; and the Federal government is spoken of as "The North."

## WRITING IN ALL AGES

Colonial Times

(No 4)

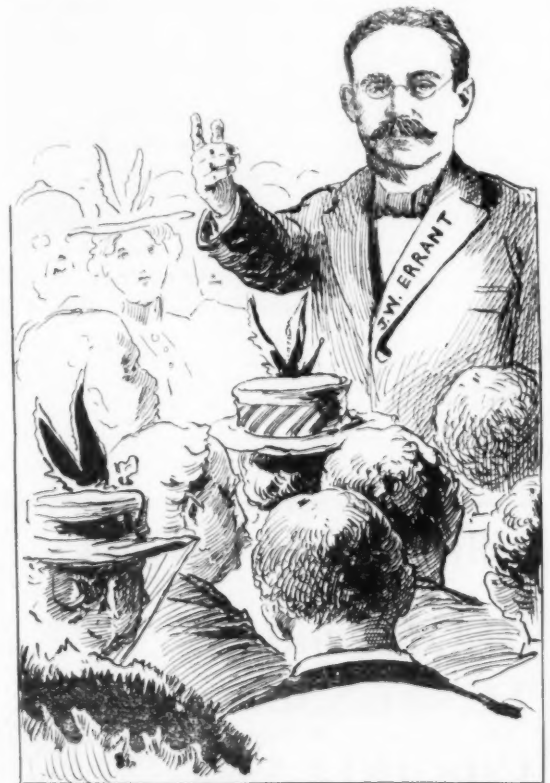


Full information will be cheerfully supplied on request. American Writing Machine Company, 316 Broadway New York

**THE NEW CENTURY**

Some of the newspapers call it a sectional book, that does not deserve a place in the schools.

Minneapolis, Minn. The school directors are agreed that something has to be done in reference to the writing system—or, rather, absence of system in the schools. The vertical system was adopted long ago, but it has not been followed. The teachers have been allowed to instruct according to any system they fancied, and the result has been somewhat demoralizing. In changing rooms, many pupils have gone from the Spencerian system to the vertical. This has resulted so unsatisfactorily that the directors are now finally awakening to the gravity of the situation and in the near future the scholars will receive instruction in some particular system.



Jas. W. Errant, Esq., ex-member of the Chicago School Board, and champion of the "Ole Man Power" idea in school government is talking in educational magazines.

## Dewey, Deane & Davis.

Dewey gave us the Philippines; Dean and Davis have given the educational public a geography which is

### UP TO DATE

and contains not only a description and map of these islands, but also of other foreign possessions of the United States.

**THE INDUCTIVE GEOGRAPHY,** By Chas. H. Deane and Mary R. Davis is the most modern text book. It is inductive in method, complete in matter, simple in expression, convenient in size, and low in price.

NOTE THE SIZE—7 x 11 inches. 324 pages. Price, 90 cts. Send 75c. for sample copy.

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74 Fifth Avenue, New York.

## TRANSLATIONS.

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The Memphis and Nashville school boards will ignore the Tennessee uniformity text book law.

Upland, Pa. A proposal has been made to the Board to introduce "Kennedy's System of Geometrical and Mathematical Blocks."

Salt Lake City, Utah. Sheldon & Co.'s copy books are to be used three more years in the schools.

Fond du Lac, Wis. Mr. Smalley of Ginn & Company recently addressed the board on the subject of penmanship copy books.

Worcester, Mass. It is contemplated to again introduce the Spencerian writing system in the schools. The business men like it better than the vertical system, the bankers claiming that there is less individuality in the vertical writing and therefore forgery is much harder to detect.

Grand Rapids, Mich. During the recent text-book contest the following firms were represented: American Book Co., Ginn & Co., Silver, Burdett & Co.; Maynard, Merrill & Co.; Macmillan Company, and D. C. Heath & Co.

Campbelltown, O. Americanized Britannica Encyclopedias have been purchased for each district from the Werner Publishing Company.

Topeka, Kan. The State Text-Book Commission at a recent session adopted the following books: Zoology, by David Starr Jordan and Vernon Kellogg, of Leland Stanford University; and astronomy, by George C. Comstock, University of Wisconsin, published by D. Appleton & Co., Chicago. The following were approved by the commission: Miesse Chart, as revised—National Publishing Company, Chicago; school seats, chairs, tables and book cases—American School Furniture Co., Chicago; Eli G. Foster's Historical Chart—E. G. Foster, Topeka; Political and Relief Maps, Anatomical study—Central School Supply Co., Chicago; People's Library Encyclopedia—Franklin Publishing Co., Chicago; Webster's International Dictionary—C. & G. Merriam Company, Springfield, Mass.; Webster's School Dictionaries—American Book Co., Chicago; Campbell's Daily Register, Planetary Pencil pointer, numeral frames, Tarr's pointers, rubber tipped; Bartlett's dictionary holder, Noy's dictionary holder, slated cloth, liquid slating—Goldsmith Book and Stationery Co., Winfield and Wichita. A Practical Agriculture, by Jas. Craig—D. Appleton & Co., Chicago. Recommended for supplementary use in high schools: A history of the American Nation, by Andrew C. McLaughlin, University of Michigan—D. Appleton & Co., Chicago.

Peshigo, Wis. The free text-book system has been inaugurated in the schools.

Mr. Daniel L. Fish, author of Fish's Arithmetic and other well known school books, died at his home in Rochester, N. Y., Sept. 4th, aged seventy-nine years. He was born in Richfield Springs. During his earlier life he taught school in several parts of New York state, and shortly after the war broke out he received a position in the publishing house of Ivison, Blakeman, Taylor & Co., in Brooklyn.

Racine, Wis. Tilden's Commercial Geography, Pitman and Howard's Manual of Phonography, Kelsey's Caesar and Cicero, and Collar's New Latin Composition are to be given a trial in the High school during the present year.

A Tennessee newspaper, in speaking of the fact that the Board of Education of Nashville has refused to use the books adopted by the State Board of Education, says: The uniform text-book law is an infamous scheme perpetrated upon the people who do not want it. Designing demagogues with populist ideas of economy have sought this subterfuge to ingratiate themselves into the good graces of an outraged constituency. All our text books are based on Webster's dictionaries, yet these savants rejected Webster's dictionary and adopted the obsolete Worcester. The State has no more right to prescribe the books than the desks used or than the plows our farmers use. Away with it.

#### TEXT BOOK ADOPTIONS.

(Continued from page 5.)

Harrisville, R. I. Carpenter's English, Channing's history, Avery's physics, Scott Fordman's Latin, Sym's French.

Pekin, Ill. Reed's Word Method, Overton's Physiology, Natural Geography and the Prang system of drawing.

Tallahassee, Fla. The Leon County Board adopted Rand McNally's Grammar school Geography.

West Saginaw, Mich. The Speer system of mathematics.

Martinsburg, W. Va. Gore's Geometry, Fisher & Swartz's Algebra.

Dayton, O. McMaster's History of the United States.

Duluth, Minn. Barnes' Vertical Writing system.

Connersville, Ind. Williams' Composition and Rhetoric.

Carbondale, Pa. Pollard Reading system.

Upland, Pa. Henderson's Test Words, Mowry's Civil Government, Redway's Natural Geography, Montgomery's System of Bookkeeping, Baldwin's Graded Readers.

Omaha, Neb. Phillips & Fisher's Geometry.

Ellsworth, Me. King, Richardson Co.'s Music system.

Racine, Wis. Walsh series of arithmetics.

Port Huron, Mich. Sheldon's New System of Vertical Writing, Scudder's Shorter U. S. History, Stepping Stones to Literature, Avery's School Physics.

Bloomington, Ill. Tarr's Physical Geography, Harper and Gallup's Cicero, Rensen's Chemistry, Herrick & Damon's Composition.

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Send for full particulars.

Profitable work all winter.

The Curtis Publishing Company, Philadelphia

St. Joseph, Mo. Prang Drawing system.

Steubenville, O. Montgomery's Leading Facts of American History, and Frye's Elementary and Complete Geography.

Rockford, Ill. Werner Arithmetic.

Scranton, Pa. Tarbell's Revised Language Lessons.

Warren, O. Ginn & Co.'s Educational Music Course.

Mason City, Ia. Cyr's Readers.

Ellicott, Md. The Columbia System of Vertical Penmanship.

Macon, Ga. Roubenush Vertical Penmanship.

Columbus, O. Rolfe & Dennison's Junior Latin book,

Tarr's & Davis's Physical Geography, McLaughlin's History of the American Nation, Wells' Algebra and Colton's Practical Zoology.

Wilmington, Del. Lyle's Grammar.

White Hall, Ill. Williams' Chemistry.

Muscataine, Ia. Rand McNally & Co.'s Readers.

St. Joseph, Mo. Prang Drawing system.

Racine, Wis. Atkinson's Botany and Arithmetic by Three Hundred Authors.

Pomeroy, O. The Creamer Semi-Vertical system of Penmanship.

Effingham, Ill. Robinson's Higher Arithmetic.

Lincoln, Neb. Werner's Arithmetics, Wentworth's Geometry, Blaisdell's Physiology, Well's Algebra.

Cadillac, Mich. Reed & Kellogg's Graded Lessons.

Oshkosh, Wis. Williams' Text Book of Chemistry.

Ashley, Pa. Baird's Arithmetic for grammar school and Milne's Arithmetic for the high school.

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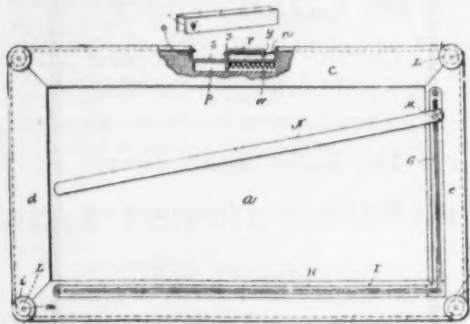
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BOSTON,  
73 Tremont St.

Recent Patents Granted.

ON SCHOOL SUPPLIES AND EQUIPMENT.

FRAME FOR SLATES. George W. Mitchell, Pennington, Tex.



A slate-frame formed in sections, a peripheral groove about the frame, rollers at the corners of the frame, a binding-wire passed around the frame over the rollers and lying in the groove, and a spring having connections with one end of the wire and adapted to maintain tension of the latter.

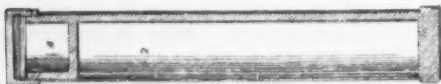
PENCIL-SHARPENER. Herman Eichler, New York, N. Y.



A pencil-sharpener having an outwardly-curved end 2, the end 5, provided upon its upper surface with V-shaped cutting edges 1 1, said end 5 being outwardly curved to admit the pencil being placed therein, and the flat surface 4,

joining the parts 2 and 5.

SCHOLAR'S COMPANION. Lorenz F. Biesmeyer, Westphalia, Mo.



In a scholar's companion, the combination of a cylindrical body portion having a longitudinal recess and having a fixed shoulder at one end and screw-threads at the other end, a cylindrical cover or sleeve loosely fitting the exterior of the body portion having a longitudinal opening adapted to register with the recess in the body portion, and a screw-cap engaging the sleeve to hold it in position on the body portion and for clamping and securing the same in closed position.

INK-WELL. Charles F. Ritchel, Bridgeport, Conn., assignor to the Yankee Manufacturing Co., same place.



The combination with an ink well or stand, of a controller for the dip of the pen in the ink, an adjusting-screw whereon the controller is mounted for adjustment relatively to the level of the ink, and an unclutching and clutching nut for releasing the controller at the ends of its traverse, said nut consisting of the elastic lips of the controller gripping the opposite sides of the screw by their edges.

COMBINED PENCIL HOLDER AND SHARPENER. Jas. R. Vestal, Walnut Grove, Mo.

The combination with a pencil-holding sleeve, of a single strip of metal secured intermediate its ends to the sleeve and having one end bent into a clip adapted for securing the device to the

garment, and its outer end extended beyond the end of the sleeve and formed into a resilient knife and positioned to trim the pencil when it is moved in the holder and for retaining it in the sleeve when not being sharpened.

ADJUSTABLE BOOK-HOLDER. Jacob Bauer, Chicago, Ill.

In a book-holder, the combination of the clamping members A and B, the member A, being provided with three openings, and the member B, being provided with two openings, and a socket or depression b near its outer end, with the doubly-bent supporting-rod D, located in the central openings of the clamping members, the movable collar d, surrounding said supporting-rod, and resting on the upper surface of the member A, and having a set-screw to fix it at any desired position, the bolt C, having screw-threads near its end opposite the head, and located in the openings of the clamping members near the support, the lower part of said bolt being smooth, and provided with a head to act as a fulcrum for the lower clamping member, and the screw E, located in the opening near the free end of the member A, and having its lower end within the depression b, of the clamping member B.

Fond du Lac, Wis. The board of education has entered into a contract with the American School Furniture Co. for the requisite number of desks to fit up four new rooms.

Omaha, Neb. Desks and seats manufactured by the American School Furniture Co., of Manitowoc, Wis., and the Buffalo Desk Co., of Buffalo, N. Y., purchased.

Minneapolis, Minn. The contract for school desks was let to Thomas Kane & Co., of Racine, Wis.

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AMERICAN AND BRITISH AUTHORS. Truly an American work on Literature, giving our own great authors the first place, without disparaging or slighting British authors. It contains portraits of leading American authors and pictures of their homes; discussions of the writings of both American and British authors; biographies, references, criticisms, and choice selections. Also a study of the Bible as a literary work. Full cloth, 344 pages. Price, prepaid, \$1.35. Introduction, \$13.20 a doz., prepaid.

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FRANK V. IRISH, Columbus, Ohio.

The Manitowoc Seating Works were awarded contract for school desks at Lovett, Pa.

The Grand Rapids School Furniture Works sold a nice bill of combination adjustable school desks at Elizabeth Port, N. J.

The Thomas Kane & Co. Works were the successful bidders at Tehurbury, Pa., for furnishing school desks.

The Grand Rapids School Furniture Works secured a very nice order for school desks at Hale Eddy, N. Y.

The American School Furniture Co. was the successful bidder at Summerhill, Pa.

A SCHOOL DESK THAT IS DIFFERENT FROM THE REST AND BETTER THAN THEM ALL

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Notice the beautiful appearance of the back and seat of this desk. Compare it with the unsightly "bar room appearance" of desks made of alternating light and darker woods. The REGAL is made of "built up" woods, five thicknesses, with grain crossed, making it impossible almost to split it even with an ax. The hinge is a patent device that is different from, and better than all others—noiseless, indestructible. You can take a dozen of the ordinary school desks, set them side by side and you can hardly tell them apart. Here is something radically different and superlatively better.

Send for our catalogue and book of testimonials and be converted.



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## Horsford's Acid Phosphate

It relieves nervous and sick headache; the sense of fullness, distress and pain in the stomach after meals; prevents acidity of the stomach and offensive belching of wind.

It makes the process of digestion natural and easy, and creates a good appetite.

Taken before retiring, quiets the nerves and induces refreshing sleep.

Sold by Druggists.

Der Herr. — Herr: „Sehen Sie, Herr Professor, hier hat auch vor Jahren infolge eines Erdbebens der Fluss sein Bett verlassen.“  
Professor: „So, so, und wo schläft er denn jetzt?“

In der Schule. — Lehrer: „Kritik, fannst Du mir sagen, wo das Kameel zu Hause ist?“  
Kritik: „Das ist überhaupt nie zu Hause, das treibt sich immer in der Wüste umher.“

“Young man,” said a publisher, “do you want employment in my establishment?”  
“Certainly,” was the applicant's reply.

“That's all right, then,” was the rejoinder, with a sigh of relief; “I was afraid you just wanted a position.”

At a school board meeting in a small Pennsylvania town the following proceedings took place:

“I move we build a new school house,” said a member, as he arose to his feet.

“We'll do nothing of the kind,” said the chairman, a son of the Emerald Isle; “you sit down. I propose that we tear down the old school house and use the brick to build a new school house—and that we don't pull down the old building until the new one is finished.”

Mother—You are at the foot of the spelling-class again, are you?

Boy—Yes'm.

Mother—How did that happen?

Boy—I got too many z's in scissors.

Teacher—“The race is not always to the swift.” Do you understand the inner meaning of that?

Bright Boy—Sometimes the head feller's tire get's punctured.

### A Slip of the Tongue.

A teacher unexpectedly enters the school room and finds a lad, who is not particularly distinguished for brightness, occupying the teacher's desk.

Teacher (angrily) — Get away from there at once! It is remarkable, that the greatest dunces always insist upon occupying that desk!

### Vulgar Economy.

Miss Shoddie — The Highminds are going to send Edith to college.

Mrs. Shoddie — Huh! It doesn't cost half as much to send a girl to college as it does to have her at home and keep her dressed up the way we do you.

### School Board Election.

Mrs. Squeers—I can't make up my mind whether to vote for Tubbs or for Timmins.

Mr. Squeers—Decide on Timmins.

Mrs. Squeers—But I thought you favored Tubbs?

Mr. Squeers—I do. That's why I want you to select Timmins before you change your mind.

As CAPT. CUTTLE would say:



“When found make a knot of.”

## DIXON'S AMERICAN GRAPHITE PENCILS

Are known throughout the length and breadth of this land as the perfect school pencil; as they are carefully and accurately graded for all purposes connected with educational work. Send for Samples.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

Teacher—What is meant by the expression, “the book of all books?”  
Boy (son of an accountant)—The ledger.

### How the Schoolmarm was Deceived.



A SCHOOL STORY IN SIX PICTURES.

**Absent Minded Again.**  
Professor—Strange! Fourteen o'clock—is it possible!

Wife—You are looking at the thermometer instead of the clock.

Mrs. May-Fair—I hear that your son is a great student and spends most of his time over the midnight oil.

Mrs. Jones (a rich parvenue, in pony carriage)—Not a word of truth in it. We 'ave electric light hall over the 'ouse and Halfred 'as a 'ole chandelier in 'is room!

### Not the Space Writer's Opinion.

Johnny—Pa, what is meant by “descriptive writing?”

Pa—Descriptive writing, my son, is that part of a book which is generally skipped.



German Professor—Why is not my wife at dinner today?

Servant—She is quite distracted and has no appetite.

Professor—Strange! the attack must have been a sudden one.

Servant—Yes, quite sudden. She just discovered that you have been using her bathing suit for a pen wiper.

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### New School Buildings.

Montgomery, Ala. A new 8-room school. To cost \$20,000.

Jasper, Ala. Contract to erect new school awarded.

Hartford, Conn. Architect W. C. Brocklesby has made plans for a new science hall for Trinity college. To cost \$40,000.

Washington, D. C. A manual training school is to be constructed on the southeast corner of Rhode Island avenue and Seventh street, N. W.

Bourbon, Ind. A new 7-room college. To cost \$8,000.

Marion, Ind. Architect B. L. French is preparing plans for a three-story college building 50x150 feet.

Irvington, Ind. It is contemplated to erect a new school. Write C. B. Clark, clerk.

Monon, Ind. Work on the proposed new \$20,000 school is soon to commence.

Chicago, Ill. A new 20-room school to be erected at Calumet avenue and Forty-first street. Write Architect W. B. Mundle.

Evanston, Ill. A new \$35,000 grammar school to contain eight rooms. Architects Patton, Fisher & Miller, Chicago, are preparing plans.

Fairview, Ill. A new \$8,000 school. Architect Wm. Wolf, Galesburg, Ill., drew plans.

Belvidere, Ill. A new 8-room school. Architects Bradley & Carpenter, of Rockford, Ill., are preparing plans.

Sioux City, Ia. Architect Wilfred W. Beach has prepared plans for a main college building for Morningside college. To cost \$45,500.

Lincoln, Ia. The contract to build a new school has been awarded.

Oelwin, Ia. A new school house. Write A. J. Mettlin, secretary.

Franklin, Ia. Address H. A. Thompson for information regarding new school.

Fall River, Mass. A new \$80,000 school. Write Architect Louis G. Destremps.

Stephenson, Mich. A new school is being erected about three miles from here.

Omer, Mich. A new \$4,000 school. Architects Haug & Scheurman, Saginaw, W. S. Mich., prepared the plans.

Flint, Mich. A three-story school is in course of erection.

Duluth, Minn. Architects Palmer, Hall & Hunt have plans for a normal school for this city to cost \$75,000.

Fairbault, Minn. The Bethlehem academy proposes to build an addition, 40x46 feet, several stories high.

Kansas City, Mo. Architect C. A. Smith has drawn plans for an 8-room addition to Snitzer school. To cost \$50,000.

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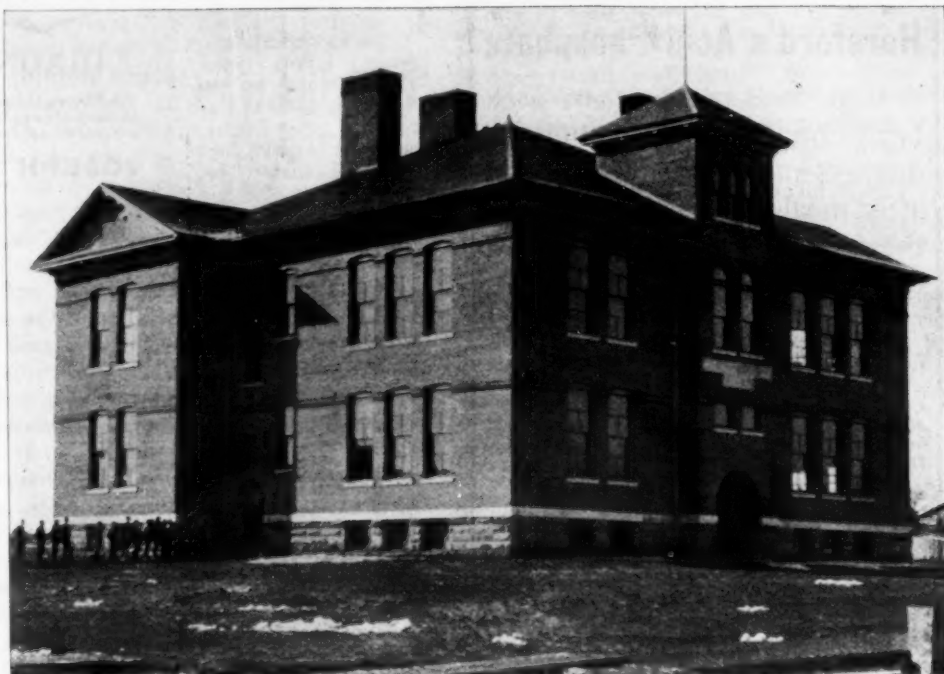
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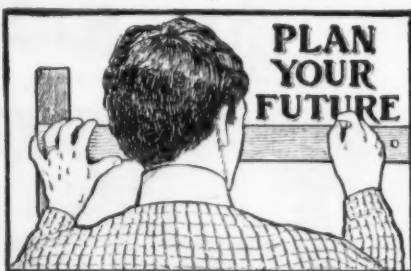
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South St. Joseph, Mo. A new school house will be built next spring.

Banksville, Neb. Contract for building new school awarded.

Borlus, Neb. An addition is being made to school house.

South Omaha, Neb. A new 10-room school is being constructed according to plans of Architect John Kiewit, Twenty-fourth and N. streets. To cost \$24,000.

Trenton, N. J. Architect F. S. Allen, Joliet, Ill., has prepared plans for a high school building for Trenton. To cost \$100,000.

New York, N. Y. Write Rich. H. Adams, chairman committee on buildings of the board of education, regarding the erection of new school buildings.

Eddytown, N. Y. A new seminary building is to be erected here.

Charlotte, N. C. It is contemplated to issue \$25,000 in bonds for the purpose of building a new school.

Langdon, N. D. A new school is to be erected.

Harvey, N. D. Bids for building new school have been received.

Bottineau, N. D. A new 6-room school according to plans of Architect J. W. Ross, Grand Forks, N. D.

East Liverpool, O. Bids for building a new school have been asked.

Toronto, O. Contract for building new school awarded.

Cleveland, O. Write H. Q. Sargent, school director, regarding the building of new schools.

West Unity, O. Contract to build new school has been let.

New Waterford, O. A new \$10,000 school.

Oakhill, O. Work on new school has commenced.

Boscom, O. Ground for erecting new school has been broken.

Chandler, O. T. The school board has plans for a two-story and basement school, 25x70. To cost about \$10,000.

Millersville, Pa. Architect J. A. Dempwolf, Centre Square, York, Pa., has plans for a three-story and basement school for the school board of Millersville. To cost \$20,000.

Philadelphia, Pa. Write Architect Rowland W. Boyle, 1530 Chestnut street, who has just completed drawings for a new \$30,000 school.

Warwick, R. I. This city has voted to issue bonds for school building purposes.

Austin, Tex. A new high school is to be erected. Plans have been drawn by Architects McDonald & Gordon.

Montpelier, Vt. A new 8-room school. Bids for erecting same have been opened.

Clarksburg, W. Va. A new 8-room school has just been completed.

Manitowoc, Wis. An addition to the Luling school is to be made.

La Crosse, Wis. A new \$30,000 school. To be 72x113 feet and three stories.

Ripon, Wis. The trustees of Ripon college contemplate the erection of a science hall.

Sparta, Wis. A new school according to plans of Architects Chandler & Park, Racine, Wis.

Anson, Wis. A new building is in course of erection. Stoughton, Wis. A new school according to plans of Architect Allan D. Conover, Madison, Wis.

Stevens Point, Wis. Plans for a kindergarten school have been decided on.

Waukesha, Wis. The trustees of Carroll college are erecting a new college building at a cost of about \$25,000.

River Falls, Wis. An addition to high school.

La Crosse, Wis. Work on the building of a new school soon to commence.

Hurley, Wis. A new school according to plans of Architect F. D. Orff, Minneapolis, Minn.

Wautoma, Wis. An addition to school house.

St. John, Mich. A Smith Premier typewriter has been purchased for use in the high school.

A large order for general school supplies and physical apparatus have been received by J. M. Olcott & Co. from Sitkin, Minn.

The Piqua School Furniture Works was the successful bidder for furnishing school desks to Jersey Town, Pa.

The American School Furniture Co. secured contract at Hanover, Pa., for school desks.

The Chandler Adjustable Chair and Desk Works secured a nice order for several hundred adjustable desks at Chester, Pa.

### FIRE ESCAPES.

### NATIONAL IRON Co.

New York City, Reed City, Mich.

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STICKS EVERYTHING  
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### Answer to Correspondents.

N. S. C., Newark, N. J.—The Jackson copy books are at home in England. The publishers are Sampson, Low, Marston & Co., Fleet street, London. The copy books were handled in this country by Wm. Beverly Harison, who failed some time ago. We do not know whether Mr. Harison represents them at this time or not.

J. J. D., Little Rock, Ark.—Sketch of Charles De Garmo has been mailed to your address.

W. R., Portland, Me.—We can give you no better answer than the following:

"Corporal punishment as an instrument of school discipline has died within the last half century, not through any regulation being established against it, but because of the growing feeling against it within the teaching profession. The development of the marking and examination method also has worked to stop flogging, by supplying a means of pressure in favor of work, which supplants the rod. In the days of our youth the marks were made upon the boy, not upon the roll-book, and the examination he had to undergo was to ascertain whether he had protected himself in any forbidden way against the rod.

"This is the general trend in the matter, but the rod cannot be abolished entirely. In states where the laws make education compulsory and children do not love their books and will not obey parents or teachers without the most rigid discipline, the rod is a sort of 'court of last resort' and must be used. In such cases to spare the rod is to spoil the child."

### Heating and Ventilating.

Kenton, O. The board of education has been negotiating with the Peck-Williams Heating and Ventilating Co. regarding furnaces.

Louisville, Ky. The school board's committee on buildings, in a report, state: "We renew the objection to the 'gravity system' of hot air heating, as stated in the report of 1896-7, it being undesirable on account of unreliability in cold weather, on account of excessive cost of fuel and repairs, and being objectionable from a sanitary standpoint.

### SCIENCE AND ART OF PENMANSHIP.

A new (1899) and unique TEXT BOOK for daily use in Class Recitations in **PENMANSHIP** and cognate subjects in Public Schools. Lessons may be assigned and recited from day to day, as in Orthography, Geography, Physiology, or any of the common school branches. The most practical and useful knowledge for every day life. It is teachable; it tells how; it tells why. Ample suggestions, outlines, tables, models, exercises, etc. Over 1,000 questions answered in the text. 256 topics. Ample illustrations. **IT IS WHAT YOU WANT.** Cloth, 256 pages; XI chapters. \$1.00 BRINGS IT. A postal card brings the Table of Contents, etc. Transform your classes and renew the interests of your pupils. Address all orders for this book

G. W. HENDERSON & SON,  
WEST CAIRO, ALLEN COUNTY, OHIO.

Boston, Mass. The school board executed a contract with the Fuller & Warren Warming and Ventilating Co. for installing a heating and ventilating plant in the new grammar school house on Quincy and Perth streets, Dorchester. Mayor Quincy vetoed the same.

Louisville, Ky. During the past year the Johnson system of temperance regulation was installed in the Eighth ward, Tenth ward and Twelfth ward school buildings.

Auburn, N. Y. A rule of the board of education reads: Teachers shall endeavor to secure a uniform temperature in their school rooms, and use all proper means to avoid those injurious extremes of heat and cold, which result from inattention to this subject."

The American Warming and Ventilating Co., of Chicago, have completed a number of large contracts this season.

Lewis & Kitchen, of Kansas City, have been extremely busy the past summer in installing their heating system into new school buildings.

Grand Rapids, Mich. Weatherly & Pulte secured the contract for installing the heating apparatus in the Hall street school.

The Peck-Williams Co., of Cincinnati, completed more contracts for school house heating and ventilation the present year than at any similar period before.

The ventilation and heating of school buildings are probably most satisfactorily accomplished by the method of indirect heating, whereby a constant supply of fresh air is introduced at such a temperature as to maintain the proper temperature of the room. Such an arrangement requires the introduction of fans, either to propel the incoming air or to extract the impure air, or a combination of both systems.

Boston, Mass. The board of education has executed a contract with Lynch & Woodward for furnishing a heating and ventilating apparatus for the new grammar school at Quincy and Perth streets, Dorchester.

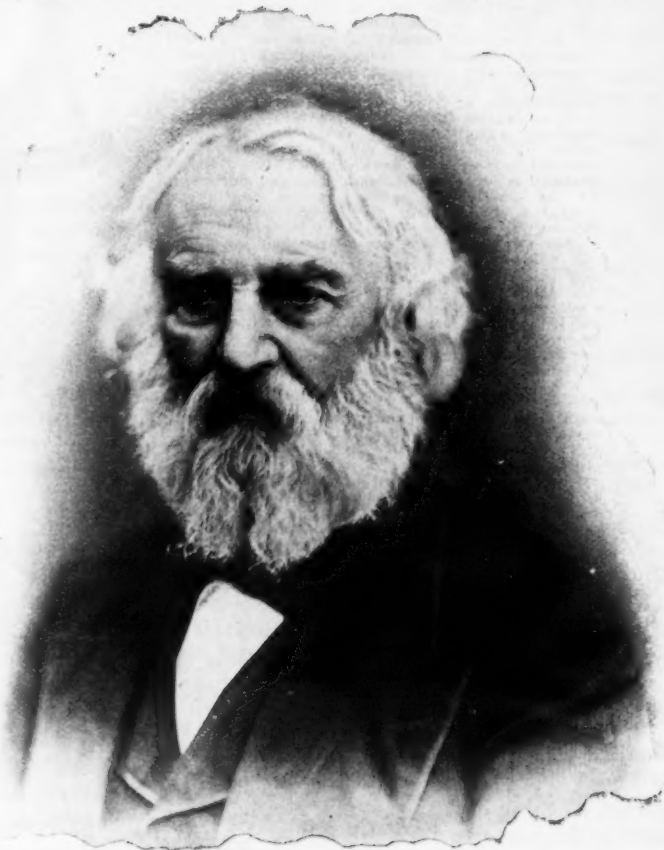
Middletown, O. The Ideal heater manufactured by the Peck-Williams Co. has been placed in the Sherman street school.

BETTER THAN EVER....

## The Perry Pictures,

Many New Subjects.

Many New Plates.



Copyright, 1898, by E. A. Perry, Malden, Mass. 15.

Henry Wadsworth Longfellow.

1897-1898

(This cut does not show the real beauty of these pictures. Send for samples as advertised)

### BEWARE OF IMITATIONS! A CARD.

As the originator of **The Perry Pictures** I wish to express my appreciation of the cordial reception accorded these pictures and to assure all interested in them that I shall strive constantly to maintain and even to excel the high standard already attained by this work.

Very truly yours,

EUGENE ASHTON PERRY.

### CATALOGS.

Send two 2-cent stamps for our 24 page illustrated catalog containing these six full size pictures,—BABY STUART, LONGFELLOW, WHITTIER'S HOME, SNOW SCENE, LANDING OF THE PILGRIMS, DETAIL OF DOORWAY, ALHAMBRA, JUNGFRAU, or send ten cents in stamps or coin for the same catalog and these six pictures besides:—Shepherdess. Niagara Falls. Kittens. The Good Shepherd. Prince Balthazar. Angel.

### CAUTION.

The success of **The Perry Pictures** has led to their imitation by others. All who wish to obtain by far the best pictures are cautioned against purchasing other pictures, advertised as being as good as **The Perry Pictures**, with the thought that they are getting **The Perry Pictures**. Be sure that the name is upon every picture.

Remember that we pay postage to any part of the United States.

### PRICE.

# ONE CENT EACH

for 25 or more and selection may be made from our entire list. All on paper 5½ by 8 inches.

### ADDRESS,

## THE PERRY PICTURES COMPANY,

Boston Office: Tremont Temple.  
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MALDEN, MASS.

Be Sure to Mention **SCHOOL BOARD JOURNAL**.

**Our GREAT PREMIUM OFFER** of **THE PERRY MAGAZINE** one year (\$1.00) and the **Premium Set of 100 PERRY PICTURES (\$1.00) all for \$1.40** is for a limited time only. See June number of this paper for names of the hundred pictures. The September number of the magazine will be sent for 10 cents. Regular price 15 cents. It contains 48 pages, 15 illustrations.



## A CERTAIN CURE FOR PILES.

Safe and Effective in Every Form of This Common and Annoying Disease.

Many people suffer from piles, because after trying the many lotions, salves, and ointments without relief or cure, have come to the conclusion that a surgical operation is the only thing left to try, and rather than submit to the shock and risk to life of an operation, prefer to suffer on. Fortunately this is no longer necessary, the Pyramid Pile Cure, a new preparation, cures every form of piles, without pain, inconvenience, or detention from business.

It is in the form of suppositories, easily applied, absolutely free from opium, cocaine, or any injurious substance whatever, and no matter how severe the pain, gives instant relief, not by deadening the nerves of the parts, but rather by its healing, soothing effect upon the congested membranes.

The Pyramid Pile Cure is the most effective, the safest and most extensively sold of any pile cure that has ever been placed before the public, and this reputation has been secured by reason of its extraordinary merit and the reasonable price at which it is sold, all druggists selling it at 50 cents per package, and in many cases a single package has been sufficient.

A person takes serious chances in neglecting a simple case of piles, as the trouble soon becomes deep-seated and chronic, and very frequently develops into fatal, incurable rectal diseases, like fistula and rectal ulcers.

Any druggist will tell you the Pyramid is the safest, most satisfactory pile cure made.

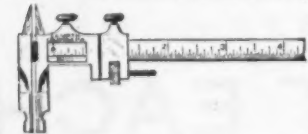
The Pyramid Co., Marshall, Mich., will send free to any address a treatise on cause and cure of piles, also book of testimonials.

### Useful Instruments for Schools.

Scientific apparatus are a fixed factor in the study of science in all modern high schools and colleges. The day of the text book "only" in science teaching has passed, the new departure is experimental work by the student himself—the equipment of the laboratory, therefore, is of vital importance. The instruments illustrated in this article represent a line which are in use in a number of our universities, giving most excellent satisfaction.

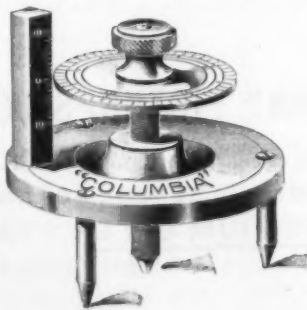
The first large cut represents a caliper graduated in m/m, with vernier to read tenths; also with inch graduations, if desired. The jaws and end of scales are hardened, and the sliding head has an even and easy motion, a necessary part of a good caliper. The shape of these jaws is so constructed as to have maximum of strength with the minimum of metal, thus giving the instruments a neat and not clumsy appearance.

The second cut represents an instrument with clamp and adjusting screw and hardened steel point on



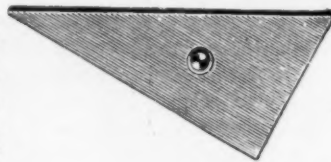
the upper end of jaws, which are very convenient for measuring distances between two points, etc. They are made with vernier to read 100ths of m/m and on the other side to read 1000ths of an inch.

The third cut represents a spherometer, which needs no description, as all the parts are shown,



adapted for this purpose, as it will not corrode.

The maker, Mr. E. G. Smith, of Columbia, Pa., would be pleased to send his list to any one interested. It includes a large variety of calipers, scales, micrometers, spherometers, etc.



and its use is so well known.

The same applies to the spring gauge in the next cut. All you have to do with it is to put the gauge over the work, and it will adjust itself to it, the dial showing exactly the thickness in 1-10th millimeters.

The next cut represents a triangle, which the maker furnished in German silver, either 45 degrees or 60x30. This metal is very well

### Superintendent Elections.

Fergus Falls, Minn. J. A. Vandyke; Hender-

son, Ky., J. M. McCally; Holyoke, Mass., L. P. Nash; South Bend, Wash., Francis N. Smith; Greenfield, Ia., W. P. Reeve; Green Bay, Wis., F. G. Kraege; Johnstown, N. Y., F. W. Jennings; San Bernardino, Cal., Howard Lunt, \$1,500; Alton, Ill., R. A. Haight; Ishpeming, Mich., J. E. McCollins; Grinnell, Ia., D. A. Thornburg; Metamora, Mich., L. H. Metras; Rock Island, Ill., Robert G. Young, \$2,300; Fresno, Cal., C. L. McLane; Marblehead, Mass., Frederick C. Priest; New Hampton, Ia., L. T. Gould, \$1,100; Carlinville, Ill., J. E. Wooters; Wyomere, Neb., A. V. Loderback; Vassar, Mich., A. E. Wilber; Chippewa Falls, Wis., S. B. Tobey; Peterson, Minn., Wm. A. Briggs; Eatonton, Ga., C. H. Bruce; Marion, Ind., Benjamin F. Moore; Wakefield, Mass., U. G. Wheeler; Jefferson City, Mo., J. W. Richardson.

Wapokoneta, O. A resolution adopted fixed the charges for non-resident pupils and requires payments to be made in advance. The charges are: First term, high school, \$6; grammar grades, \$5; primary grades, \$3. Second and third terms, each, high school, \$5; grammar, \$3.50; primary, \$2.

## A PECULIAR REMEDY.

Something About the New Discovery for Curing Dyspepsia.

(From Mich. Christian Advocate.)

The Rev. F. I. Bell, a highly esteemed minister residing in Weedsport, Cayuga Co., N. Y., in a recent letter writes as follows: "There has never been anything that I have taken that has relieved the Dyspepsia from which I have suffered for ten years except the new remedy called Stuart's Dyspepsia Tablets. Since taking them I have had no distress at all after eating and again after long years can sleep well. Rev. F. I. Bell, Weedsport, N. Y., formerly Idalia, Colo."

Stuart's Dyspepsia Tablets is a remarkable remedy, not only because it is a certain cure for all forms of indigestion, but because it seems to act as thoroughly in old chronic cases of Dyspepsia as well as in mild attacks of indigestion or biliousness. A person has dyspepsia simply because the stomach is overworked, all it wants is a harmless vegetable remedy to digest the food and thus give it the much needed rest.

This is the secret of the success of this peculiar remedy. No matter how weak or how much disordered the digestion may be, Stuart's Dyspepsia Tablets will digest the food whether the stomach works or not. New life and energy is given not only to the stomach, but to every organ and nerve in the body.

A trial of this splendid medicine will convince the most skeptical that Dyspepsia and all stomach troubles can be cured. Send for little book on Stomach, mailed free by addressing F. A. Stuart Co., Marshall, Mich. So popular has the remedy become that Stuart's Dyspepsia Tablets can now be obtained at any drug store at 50c. per package.

## ARE YOU SATISFIED WITH YOUR PRESENT INCOME?

If you are earning less than \$75.00 per month and appreciate an independent position at which you can earn \$150.00 and expenses per month (and many of our active men make more) you should communicate with us immediately.

IT COSTS YOU NOTHING TO WRITE US AND LEARN OF THE EXCEPTIONAL OPPORTUNITY WE OFFER TO THE RIGHT MAN. WE WANT MEN EVERYWHERE. We want an active, industrious, reliable salesman in every town. We furnish FREE OF CHARGE everything required to place you immediately in position to earn BIG WAGES at high grade employment and keep you busy every day in the year, except Sundays.

### Men in Every Walk of Life

AGENTS OF SUNDRY ARTICLES  
INSURANCE AGENTS  
BOOK CANVASSERS  
NURSERY STOCK AGENTS  
FARM MACHINERY AGENTS  
Clerks in General Stores  
FACTORY FOREMEN

MERCHANTS  
TRAVELING SALESMEN  
SCHOOL TEACHERS, MINISTERS  
AND MEN WHO HAVE HAD  
NO PREVIOUS EXPERIENCE

ARE ON OUR LISTS OF  
SUCCESSFUL AGENTS.

WE ARE THE WORLD'S LARGEST TAILORS. We buy our cloth direct from the LARGEST AMERICAN AND EUROPEAN MILLS. We control the entire output of several of these mills. We own our materials at the lowest possible cost, and operate the most extensive and economic tailoring plant in existence, and cut to measure and make to order Suits and Overcoats from \$5.00 to \$15.00 (mostly \$5.00 to \$10.00). Pants from \$1.50 to \$5.00. Fancy Vests from \$2.00 up. The days of ready-made clothing are numbered. AT THESE PRICES everyone will prefer to have his garments cut to his measure and made to his order. NO DIFFICULTY IN GETTING ORDERS.

OUR PLAN. If your references are satisfactory we start you out at once. We furnish you FREE a complete AGENTS' SAMPLE BOOK AND OUTFIT. Our large, handsome, leather-bound Sample Book contains our entire line of Suits, Overcoats, Trousers and Vestings; full instructions for taking measurements (which you can learn in 5 minutes from the large photographic illustrations in the book), colored lithographed fashion plates, full description of the material underneath each sample, and prices left blank for you to fill in, fixing your profit to suit yourself. This Sample Book is put up in a Fine Canvas Carrying Case, which also contains Tape Measure, Order Blanks, Business Cards, Stationery, Advertising Matter and Agents' Guide and Instruction Book, with Net Confidential Price List, also complete "Salesman's Talk." Our instructions are so plain, our suggestions to the salesman so thorough that anyone can immediately make a success of the work. You require nothing. Just take the orders, send them to us, we make the garments promptly and send them by express C. O. D., subject to examination, and if not perfectly satisfactory they can be returned at our expense. Neither the agent nor his customer assumes the slightest risk. We take all the chances of the transaction. We either ship direct to your customers, collecting your full selling price and send you weekly check for all your profit; or, if you prefer, we ship direct to you at your net confidential price, allowing you to make your own collections. You can add a liberal profit to your confidential price.

NEARLY ALL OUR MEN MAKE \$40.00 EVERY WEEK IN THE YEAR. THE OUTFIT IS ABSOLUTELY FREE. We make no charge for our complete Agent's Sample Book and Outfit, but in order to protect ourselves against many who might impose on us by sending for the outfit (which costs us between \$5.00 and \$6.00), with no intention of working, but merely out of idle curiosity, we require each applicant to fill out the blank lines below, giving references, and further agree to pay a temporary deposit of One Dollar and express charges for the outfit when received, if found exactly as represented and really a big money maker. While this nominal deposit of \$1.00 for the outfit is not one-fifth of its cost it insures the good faith of applicants, and we promptly refund your \$1.00 as soon as your sales amount to \$25.00, which amount you can take the first day out.

AMERICAN WOOLEN MILLS CO. REFERENCES: Corn Exchange National Bank } OF CHICAGO.  
Any Express or Railroad Company }  
Any business man or resident }

Fill out the following lines carefully, sign your name, cut out and send to us, and the outfit will be sent you at once. AMERICAN WOOLEN MILLS CO., West Side Enterprise Building, CHICAGO, ILL. GENTLEMEN:—Please send me by express, C. O. D., subject to examination, your Sample Book and Complete Salesman's Outfit, as described above. I agree to examine it at the express office and if found exactly as represented and I feel I can make good big wages taking orders for you, I agree to pay the express agent, as a guarantee of good faith, and to show I mean business (merely as a temporary deposit), One Dollar and express charges, with the understanding that the One Dollar is to be refunded to me as soon as my sales have amounted to \$25.00. If not found as represented and I am not perfectly satisfied I shall not take the outfit or pay one cent.

Sign your name on above line.  
Name of Postoffice, County and State on above line.  
Your age.....  
Married or single.....  
Address your letters plainly to  
AMERICAN WOOLEN MILLS CO., West Side Enterprise Bldg., CHICAGO, ILL.  
(American Woolen Mills Co. are perfectly responsible, we know them personally.—Editor.)  
On above two lines give as references, names of two men over 21 years of age who have known you one year or longer.  
In above line give name of your nearest express office.



# School Board Journal

## Legal.

### THE BIBLE IN SCHOOLS.

In only nine states in the Union does the reading of the Bible as a function of school exercises rest on a legal basis, plainly written in the state constitution or in the school law. These states are Massachusetts, New Jersey, Indiana, Iowa, Kansas, Georgia, Mississippi and North and South Dakota. In eleven states there is no specific mention of the Bible in the constitution or law, but the decisions of courts and state superintendents upon legal provisions for instruction in morals give an authoritative character to the custom of Bible reading. New York is included in this list. Another list of states has none of these legal safeguards, but the custom of reading the Bible prevails, being supported by established usage and public sentiment. In five states, viz., Missouri, Minnesota, Montana, Washington and Wisconsin, the decisions of courts, attorney generals and school superintendents are adverse to the reading of the Bible, but books containing selections from the Bible are in use.

In an action against a school township, by its trustees, for moneys advanced by him for school purposes, the approval of his report of the claims paid by him, by the board of county commissioners, while an adjudication of the fact of payment, is not an adjudication of the validity of the claims, binding on a township. —Timmons v. Pine School, Ind.

Joseph Miller, manager of the American School of Correspondence at Buffalo, N. Y., cannot leave the city until he pays to the Colliery Engineering Co., proprietor of the International School of Correspondence of Scranton, Pa., a judgment of \$562.33, won by the latter concern in a supreme court suit against Miller. The above verdict and costs was given by a jury in an action in which the Colliery Co. alleged that Miller slandered its school. A property execution for that amount was returned unsatisfied, and Miller was arrested and brought into the sheriff's office on a body execution. He gave bail, and was released within the jail limits.

Take advantage of the Tourist Sleeping Cars, via the Missouri, Kansas and Texas Railway, on their excursion dates. Write H. A. Cherrier, 316 Marquette Building, Chicago, Ill.

### Stereopticons for Schools.

The McIntosh Stereopticon Company, located in the Atlas Block, 35-37 Randolph Street, corner Wabash Ave., Chicago, has purchased the entire stock of Magic Lanterns, Stereopticons, Projection Apparatus and Magic Lantern Slides of the McIntosh Battery & Optical Company, and at the above location are prepared to show teachers and others interested in this subject a full line of their goods, under the most favorable conditions, having a specially-arranged dark-room, provided with all the various illuminants, including sunlight, electric light and lime light.

They have just issued a new special school circular, covering this line of projection apparatus, particularly adapted to school and college work. They make special prices to schools.

The interest manifested generally among teachers, in the plan of illustrating various subjects by means of the Lantern, seems to be on the increase, and nearly all leading schools are now adding the Magic Lantern in some form or other, to their other apparatus. Instructors visiting the rooms of the McIntosh Stereopticon Company, in the Atlas Block, will receive a cordial welcome.

Among the many recent inventions in the way of apparatus for school use, one of the most useful is the Ideal Pencil Sharpener, recently placed on the market by J. M. Olcott & Company, New



York and Chicago. This practical machine consists of a rotary cutter which revolves around the pencil in such a manner that it is almost impossible to break the point of even the softest lead pencil. The ease with which a needle point can be put on a new pencil will be appreciated by those who have many pencils to sharpen.

Lack of space forbids detailed technical description but for further information see the firm's advertisement in another column.

Two excursions to Texas each month via the Missouri, Kansas and Texas Railway, at rate of one fare, plus two dollars, for the round trip. Write H. A. Cherrier, No. 316 Marquette building, Chicago, Ill., for dates and further information concerning the same.

The Kansas State Text Book Commission, at its recent meeting held at Topeka, unanimously approved Webster's International Dictionary for exclusive use in schools. They also unanimously approved the Webster's School Dictionaries for the use of pupils in the public schools in the state.

Major A. J. Cheney, western agent for the G. & C. Merriam Company has removed his office from 1226 to 1115 Chicago Stock Exchange Building.



DWIGHT B. WALDO.

Principal of the New Normal School at Marquette, Mich.

## Magazines Received.

Harper's Magazine for August. Published by Harper & Brothers, New York. Price 35 cents.  
Century Magazine for August. Published by the Century Co., New York City. Price 35 cents.  
Scribner's Magazine for August. Published by Chas. Scribner & Sons, New York. Price 25 cents.  
Cosmopolitan for August. Edited by John Brisson Walker. Published by the Cosmopolitan Co. Price 10 cents.  
Forum for August. Edited by J. M. Rice. Published by the Forum Publishing Co. Price 35 cents.  
American Monthly Review of Reviews for August. Edited by Albert Shaw. Published by the Review of Reviews Co., New York. Price 25 cents.  
Atlantic Monthly for August. Published by Houghton, Mifflin & Co., New York. Price 35 cents.  
Arena for August. Published by the Arena Publishing Co., Boston. Price 25 cents.  
Lippincott's Monthly for August. Published by J. B. Lippincott Co., Philadelphia. Price 25 cents.  
Kindergarten Review for August. Published by the Milton-Bradley Co., Springfield, Mass. Price 20 cents.  
The Nickell for August. Published by the Nickell Magazine Co., Boston. Price 5 cents.  
Designer for August. Published by the Standard Fashion Co., New York. Price 10 cents.  
Dramatic Magazine for August. Published by the Dramatic Magazine Press, 356 Dearborn street, Chicago, Ill. Price 25 cents.  
Gunton's Magazine for August. Published by the Gunton Co., Union Square, New York. Price 25 cents.

A PLAIN TALK ABOUT THE KINDERGARTEN. 22 pages. Published by the Milton-Bradley Co., Springfield, Mass.

This little pamphlet will be mailed for a two-cent stamp to anyone who may desire it. It contains some valuable information about the kindergarten—its origin, its value, its future.

### New Chimes and Peals for Churches.

A chime of ten bells intended for one of the finest churches in the country, St. Patrick's R. C. Church, Father Martin Gessner, Elizabethport, N. J., will be shipped about December 1st, from the McShane Bell Foundry, Baltimore. The total weight of this great chime is 13,200 lbs. The McShane Bell Foundry has included in the large amount of work turned out in the past six weeks a fine lot of bells for Canadian Churches. These comprise a 5,963 pound peal of three bells to Rev. T. U. Tessier, Victoriaville, P. Q., and on August 19th a set of three totaling 2,703 pounds to Rev. Cyp. Larriee, Grand Reviere, P. Q. A 6,700 pound set of three bells will shortly be shipped to Somerset, Canada. There are also a number of other large orders which will be shipped in the near future.

Chicago. Spanish will be taught in three high schools. A request to have the Polish language taught has been made, but is not likely to be granted.

There is more Catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease, and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Science has proven catarrh to be a constitutional disease, and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a tablespoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address, F. J. CHENEY & Co., Toledo, O.

Sold by Druggists, 75c.

Hall's Family Pills are the best.

The child study department established by the Chicago board of education, through the efforts of Dr. W. S. Christopher, is being strongly opposed by Thomas Brennan, C. R. Walleck and other members of the board.

**LAW UNIVERSITY COURSE BY MAIL**  
The courses in law are conducted by Hon. A. J. Willard, late Chief Justice Supreme Court of South Carolina. Send for free Catalogue, No. 5a.

**COLUMBIAN CORRESPONDENCE COLLEGE,**  
225 Pennsylvania Avenue, S. E., Washington, D. C.

**\$5.95 DIAMOND STUDDED CASE**  
Solid 14K Gold Plated Case 3 Parisian Diamonds, and Rubies. American movement Jeweled & accurately regulated. Stem wind & set. Warranted for 20 years.  
Sent C. O. D. \$5.95 with privilege of examination. Do not take from the express unless you think this watch is not equal in appearance to a \$10 watch. Mention nearest express office, Ladies' or Gent's. Agents send money into big money. Address: **EAGLE WATCH CO., 258 Broadway, New York.**



For the convenience of school officials contemplating or considering adoptions, this list has been carefully prepared. It represents the modern and progressive School and College text books of the day, adopted by the leading Boards of Education in the United States, and recognized by the best educational authorities.

<b>Agriculture.</b>	<b>Williams' Inorganic</b> .....LG&Co " Ele. Inorganic.....S&Co " Chem. Analysis.....S&Co " Chem. Lect. Exp.....S&Co Thorpe's Quan. Anal.....S&Co Thorpe & Muir Q. A.....S&Co Muir's Practical.....S&Co Romeo & Lunt's.....MacCo Richardson's.....S&Co Noyes' Qualitative.....S&Co Talbot's Quantitative.....S&Co Meade's Elements.....SB&Co The Young Chemist.....S&Co Qualitative Analysis.....S&Co Quantitative Analysis.....S&Co Practical Analysis.....S&Co Inorganic Chemistry.....S&Co Avery's Physics.....S&Co <b>Civics.</b> Forman's.....ABCO Mowry's.....SB&Co Judson's Young A.....MM&Co McClary's.....ABCO <b>Civil Government.</b> Peterman's.....ABCO Willoughby's Am. Cit.....H&Bros Cocker's.....H&Bros John Fluke's.....HM&Co Young's.....MM&Co Martin's Hints.....SB&Co Elements of.....UPCo Finger's Lowry's.....UPCo Hinckley's Am. Gov.....WSBCO <b>Composition and Rhetoric.</b> Bohn's English.....ABCO Boyd's Elements.....ABCO Harper's Practical.....ABCO Swinton's School Eng.....ABCO Quackenbos' Pract.....ABCO Waddy's.....CSS Frink's Foundations.....H&Bros Hill's Prin.....H&Bros Buehler's Pract. Ex.....HM&Co Riverside Primer.....LG&Co Longman's.....LG&Co Collard's.....MM&Co Ballard's Beginners.....MM&Co Le Roy's Practical.....MC Kellogg's Book on Fable.....MM&Co Fairly Tale & Fable.....MC Carpenster's H. Sch.....MacCo <b>Advance</b> Lewis' Writing Eng.....SB&Co English Comp.....SB&Co Complete Rhetoric.....SB&Co New Franklin Series.....S&Co Hill's Elements.....S&Co Normal Series.....SB&Co Stepping Stones.....SB&Co English Composition.....SB&Co Complete Rhetoric.....SB&Co Sheldon's Series.....S&Co New Franklin Series.....S&Co Hill's Elements.....S&Co New Normal.....WSBCO Columbian.....D&Co <b>Cyclopedia.</b> Johnson's.....D&Co <b>Copy Books.</b> (See Penmanship.) <b>Dictionaries.</b> Webster's School.....ABCO Velasquez Spanish.....DA&Co Meadow's French-Ger.....DA&Co Adler's German-Eng.....G&CMCo Millhouse Eng-Ital.....G&CMCo Webster's Inter.....G&CMCo " National Pict'l.....H&Bros Liddell's Greek.....H&Bros Harper's Classical.....H&Bros " Latin.....H&Bros Autenrieth's Homeric.....H&Bros Blackley & Friedland.....LG&Co Longman's Pocket.....ABCO Contaneau's Fr.-Eng.....ABCO Pocket, Fr.-Eng.....ABCO Browne & Haldeman.....UPCo Clarendon.....UPCo <b>Drawing</b> Eclectic Series.....ABCO American Series.....CPCo Krone-Paragarr (27 Nos.).....KBros " Industrial (14 Nos.).....KBros " Paragarr map (6 Nos.).....KBros " Paragarr map, sheets with outlines.....KBros Morris' Teaching of.....LG&Co Geometrical.....LG&Co Wilson's Geometrical.....LG&Co Hall's Prac. Draw.....MM&Co Prang's Primary Course Manuals, Parts I and II.....PECO Primary Course without Clay, Manual, Parts I and II.....PECO Baile's Paper Folding and Cutting.....PECO Prang's Shorter Course (1-5).....PECO " Ele. Course.....PECO " Course for Grad. Schools.....PECO " Course for Ungraded Schools.....PECO Rouillon's Mec.....PECO <b>Geometry and Trig.</b> White's Series.....ABCO Eclectic School.....ABCO Phillips' Flasher Ser.....H&Bros Nichols'.....LG&Co Crockett's Trig.....ABCO Ray's Series.....ABCO Robinson's New G. & T.....ABCO Schuyler's Elements.....ABCO Stewart's Plane and Solid.....ABCO Schuyler's Trigonometry.....CSCo Brooks' Plane and Solid.....CSCo P. & S. Trig.....CSCo Baker's Geom.....G&Co Hills'.....G&Co Wentworth's.....G&Co Phillips & Strong's Trig.....H&Bros Gore's Plane & Solid.....LG&Co Estlin's.....LG&Co Noetting's Elements of Edwards' Geom.....MacCo Lock-Miller's Trig.....MacCo Loney's Trig.....MacCo Petee's Plane Geom.....SB&Co Construct. Geo.....SB&Co Welch's Trig.....TB&Co Bradbury's Ele. Plane TB&Co Trig.....TB&Co Geom. & Trig.....TB&Co Acad. Plane.....TB&Co Acad. P. & S.....TB&Co Trig. & Survey.....UPCo <b>German.</b> Keller's Series.....ABCO Adler's Pro. Ger. Read.....ABCO Dreyspring's Series.....ABCO David's Easy Stories.....LG&Co Longman's Grammar.....LG&Co Composition.....MC Gems of Literature.....MC Macmillan's Series.....MacCo Maynard's Texts.....MM&Co Neue Anekdoten.....MM&Co Deutschland und die Deutschen.....MM&Co Beginner's.....FVI Colloquial Convers.....IP&Sons Pitman's Practical.....SB&Co Sawyer's Grammar.....SB&Co Manual.....SB&Co Knofloch's Ger. Simp.....UPCo Martins' Series.....WSBCO Drillmaster in.....WRJ <b>Geology.</b> Le Contes.....ABCO Andrews' Element.....ABCO Nicholson's.....ABCO Steele's.....ABCO Geographical Portfol.....CSSCo Hand Book—Prac.....Gove's Le Conte's Ele.....DA&Co Lyell's Princ.....DA&Co Tarr's Elements.....MacCo Scott's Introduction.....SB&Co Heilprin's.....SB&Co <b>Grammar.</b> (See Language & Grammar.) <b>Greek.</b> Jebb's Literature.....ABCO Gladstone's Homer.....ABCO Coy's First Reader.....ABCO " For Beginners.....ABCO Crosby's Lessons.....ABCO Hadley & Allen's.....ABCO Harkness' First.....ABCO Harper & Water's In.....DMcK Greek Testament.....DMcK Hahn's Novum Test.....DA&Co Goodwin's Gram.....G&Co White's First Les.....H&Bros Ferguson's Aid.....H&Bros Anthony's Series.....H&Bros Ritchie's.....LG&Co Arnold's Prose Comp.....SB&Co Three Thous Words.....SB&Co Boise-Pattengill's First Les. in Greek.....SF&Co Jones' Prose Comp.....H&N Liddell's Dict.....H&N <b>Histories.</b> Eggleston's Am.....ABCO McMaster's U. S.....ABCO Barnes (8).....ABCO Eggleston's (2).....ABCO Eclectic (2).....ABCO Guerber's English.....ABCO Swinton's.....ABCO Ridpath.....ABCO Andrews' U. S.....CSS Adams'.....CSS Burgess'.....CSS Gordy's U. S.....CSS Johnston's U. S.....CSS Oxford Man. of Eng.....DA&Co Gulzot's Civil.....DA&Co Sewall's Rome.....DA&Co Crocker's Germany.....DA&Co Cooke's England.....DA&Co Sewall's Greece.....G&Co Thanning & Hart's.....G&Co Montgomery's.....G&Co Myers'.....G&Co Green's Eng. People.....H&Bros Smith's Greece.....H&Bros " Rome.....H&Bros Cor's Greece.....H&Bros Liddell's Rome.....H&Co Flisk's U. S.....HM&Co Hill's U. S.....HM&Co How & Leigh's Rome.....LG&Co Oman's Greece.....LG&Co How & Leigh's Rome.....LG&Co Higginson's U. S.....H&N <b>Gardiner's Stud. Eng.</b> Ransome's England.....MCo Alma Holman Burton's.....MCo Outlines of General.....W&Co Higginson & Channing's England.....W&Co Epochs Am. His. 3 vols.....MCo Mod. His. 19 vols.....MCo Anderson's U. S.....MM&Co England.....MM&Co France.....MM&Co Leighton's Rome.....MacCo Channing's U. S.....MacCo Shuckburg's Rome.....MacCo Botsford's Greece.....MacCo Robinson's Greece.....MacCo Hinsdale's The Old Northwest.....SB&Co Mowry's First Steps.....SB&Co Mowry's U. S.....SB&Co Labberton's His. Atlas and Gen. His.....SB&Co Scudder's His. of U. S.....S&Co Stone's England.....TB&Co Hansell's School.....UPCo Higher.....UPCo Jones.....UPCo Evans.....WSBCO Burton's Our Country.....LPCo Element's Hist. Egypt.....LPCo Douglas' His. of China.....LPCo Young Folks History of Mexico.....PPCo Smith's Manual of U. S. History.....PPCo <b>Italian.</b> Without a Master.....DMcK Hugo's Method.....IP&S <b>Language and Grammar.</b> Patterson's Word B.....ABCO Metcalfe's Ele. Eng.....ABCO " Eng. Grammar.....ABCO Maxwell Series.....CSSCo Welsh's.....CSSCo Corbett's Eng.....DA&Co Irish's Orth. & Orthography.....FVI Pitman's French.....IP&S Longman's.....LG&Co Reed & Kellogg's.....MM&Co Reed's Introductory.....MM&Co Kellogg & Reed's Word Building.....MacCo Carpenter's Gram.....MacCo Davenport & Emerson's Gram.....MacCo Normal Course in English (3).....SB&Co Welsh's Series.....SB&Co Essentials of Eng.....SB&Co Mead's The Eng. Lang. and Its Gram.....SB&Co Sheldon's Prim. Language Lessons.....S&Co Patterson's Elem. of Gram. & Comp.....PTBCO Plain English.....PTBCO Eno's Compendium of DeGarmo Lang. Ser.....WSBCO Essentials of English Grammar.....PPCo Supplementary Lessons in English.....PPCo Atwood's Language Tablets.....PPCo Analysis and Parsing.....PPCo <b>Law—Commercial.</b> Clark's.....MM&Co New Commercial.....W&R <b>Latin.</b> Harkness' Series.....ABCO Bennett's Cicero.....BHS&Co Clark's Eutropius.....ABCO Cowles' Terence.....ABCO Daniell's New L. Com. Prose Comp.....ABCO Dodge's The Private Life of the Rom. Elmer's Terence Phor. Flagg's Lives of Nepos Fowler, First Book in. Fowler's Plautus, Men. Harrington & Tolman's Gr. & Rom. Mythology. Herbertmann's Sallust, Catline.....ABCO Hopkins' Tacitus.....ABCO Kleppert's Class. Atlas. Kirkland's Horace, Satires and Epils. Lindsay's Sight Slips in Latin.....ABCO Lord's Livy, Series. Miller's Latin Comp. Owen's Cicero. Platner's Pliny. Allen & Greenough's. Lane's Gram.....H&Bros Anthon's Series.....H&Bros Latin Literature of the Empire.....H&Bros Ritchie's First Steps LG&Co " Latin Prose Comp. " Easy Continuous " Latin Prose " Morris' Ele. Latina... Shortest Road to Caesar.....M&Co Creighton's.....MacCo Burgess' Drill.....SB&Co Intercollegiate Ser.....SF&Co Jones' Lessons.....PPCo Prose.....PPCo Riggs' in Latinum.....UPCo Glidersleeve's Series.....UPCo White's Dict.....H&N Classic Texts.....DMcK <b>Letter Writing.</b> A Manual.....H&N New Practical Letter Writing.....P.T.B.Co <b>Literature.</b> (See English Literature.) <b>Musical Training.</b> McArthur's Man. Ind.DA&Co Banner's Sewing.....LG&Co Hewitt's, 2 Vols.....H&Bros Unwin's Clay Modell'g Salomon's Teachers' Handbook.....SB&Co Educat'l Theory.....H&Bros Mental Science. Orton's.....H&Bros Brown's Ethics.....H&Bros Thelam.....H&Bros Th. and Know.....H&Bros Metaphysics.....H&Bros Dexter's & Garlick's Psychology.....LG&Co Fitchener's Psych.....MacCo Davis' Psychology.....SB&Co Mahana's.....SB&Co Bain's Mental.....ABCO Hewett's Psychology.....CSS Schuyler's Psych.....CSS Robinson's Ele. of.....CSS Minto's Logic.....H&Bros Muirhead Eth., Ele. of Hyslop's Ele. of Eth. Brown's Series.....H&Bros Dewey's Psychology.....H&Bros Baker's Ele. Psych.....MM&Co Davis' Elements of Psychology.....SB&Co Gordy's New Psych.....H&N <b>Moral Science.</b> Gow Good Morals.....ABCO Hume's Essays, 2 Vol.LG&Co Human Nature, 2 Vols.....H&Bros Kant's Ethics.....H&Bros Meta. of Ethics.....H&Bros Robinson's Principles SB&Co Poland's Ethics.....
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# School Board Journal

Barnett's Teaching and Organization...LG&Co  
Garlick's Manual of Methods...H&N  
Beale's Work & Play...H&N  
Salmon's Art of Teach...H&N  
Hallech's Ed. Nerv. Sys...M&Co  
Morgan's Studies...SB&Co  
Putnam's...H&N  
Arnold's...H&N  
Putnam's Manual of SB&Co  
Mistakes in Teach...H&N  
Page's...H&N  
Penmanship.  
Barnes' Vertical...ABCo  
Spencerian Series...H&N  
Curtis' Semi-Vertical...H&N  
Roudebush Writing...CSSH  
Illustrated Lessons & Lectures in...ECo  
Large Reversible Writing Books...H&N  
Current Copy Books, Vertical Series...H&N  
Smith's Writ. Prim. HPSPCo  
Ed. System...H&N  
Longman's New Copy Books...LG&Co  
Krone-Pargarr System (22 Nos.)...KBros  
" Polish Edition...H&N  
" German (13 Nos.)...H&N  
" German, Vertical (8 Nos.)...H&N  
Merrill's Vertical...MM&Co  
New Cent. Intermedial MCo  
Normal System...SB&Co  
Sheldon's Vertical...SB&Co  
Duntonian...TB&Co  
University Series...UPCo  
Simplified Penmanship...H&N  
Economic System of Penmanship, 6 Nos. PPCo  
Potter & Putnam's System of Vertical Writing, 10 Nos...H&N

Pen Written Copies...W&R  
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Bain's...ABCo  
Day's...ABCo  
Day's Elements of...ABCo  
Schuyler's Prin. of...H&N  
Mills' System...DA&Co  
Davis' Series...H&Bros  
Bowne's Series...H&Bros  
Poland's...SB&Co  
Mills' System...LG&Co  
Phonetic Reader.  
C. W. Dean's...MCo  
Ward's Nat. Method in Reading...SB&Co  
Riley's New Phonic Primer...PPCo  
Physics or Natural Philosophy.  
Appleton's School...ABCo  
Cooley's Series...H&N  
Steele's Popular...H&N  
Trowbridge's New...H&N  
Well's Nat. Phil...H&N  
Britton's...CSS  
Grant's...H&N  
Dana's...H&N  
Mills'...H&N  
Storer's...H&N  
Thompson's...H&N  
Dechanel's N. Phil...DA&Co  
Doibear's First Prim...G&Co  
Wentworth & Hill's...H&N  
Hopkins' Preparatory LG&Co  
Watson's Practical...H&N  
Wright's...H&N  
Glazebrook & Shaw's Practical...H&N  
Balfour-Stewart's...MacCo  
Nichols'...H&N  
Shaw's...MM&Co  
Mead's Ele. of...SB&Co  
Avery's...SB&Co  
Grifford's Elements...TB&Co

Physiology and Hygiene.  
Overton's Series...ABCo  
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Child's Health Primer...H&N  
Kellogg's First Book...H&N  
The Teacher's Manual CSSH  
Barnett's Making of the Body...LG&Co  
Blaisdell's...G&Co  
Ferneaux's Phys...LG&Co  
Thornton's Phys...H&N  
Hutchinson's Series...MM&Co  
Willard & Smith Stand. MCo  
Easy Exp. in...MCo  
Foster & Shors...MacCo  
Handbook of Ex. in...SB&Co  
Primer of Health...SB&Co  
A Healthy Body...H&N  
Essentials of Health...H&N  
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Dunglison's...WSBC  
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Morris' System...ABCo  
Harvey's Phy. Exer...LG&Co  
The Ling System...SB&Co  
Anderson's...MM&Co  
Political Economy.  
Laughlin's...ABCo  
Perry's Prin...CSS  
Woolsey's...H&N  
Mills' Principles...DA&Co  
Mills'...LG&Co  
Davenport's...MacCo  
Macvane's...MM&Co  
Bullock's Int. to the Study of Econ. SB&Co  
Inst. of Economics...H&N  
Wayland's...S&Co  
Chapin's...H&N  
Wayland's Ele. of Pol. Economy...H&N  
Meserve's...TB&Co  
Readers.  
Baldwin's...ABCo  
Harper Series...H&N

Swinton Series...H&N  
Barnes Series...H&N  
Appleton Series...H&N  
McGuffey Series...H&N  
Longman's "Ship" Lit LG&Co  
"Suppl't. Fairy...H&N  
"Infant Fairy...H&N  
"Ship" Historic...G&Co  
Cyr Series...G&Co  
Collard's...MM&Co  
Todd-Powell Normal...SB&Co  
Ward Rational Method...H&N  
Stepping Stones...S&Co  
Sheldon's Series...S&Co  
New Franklin Series...UPCo  
Davis'...UPCo  
Holmes'...WPH  
Pollard Series...WPH  
New Normal...WSBCo  
Columbian...H&N  
New Script Primer...PPCo  
Vertical Script Prim...H&N  
New Phonic Primer...H&N  
Wake-Robin Series of Biography, 3 Vols. PPCo  
Stories of Starland...H&N  
Isaac Pitman's Comp. IP&S  
Instructor...H&N  
Isaac Pitman's Phono. Dic...H&N  
Spanish Phonography IP&S  
Practical Shorthand PTB&Co  
De Torno's Method...DA&Co  
Ollendorf Method...H&N  
Pitman's Pract. Spanish Grammar...IP&Sons  
Spanish Without a Master...DMcK  
Knobach's Span. Simp. UPCo  
Rice's Series...ABCo  
Betzels' Word Build. CS&Co  
Graves'...G&Co  
Reed-Word Lessons...MM&Co  
Morse Speller...MCo

Benedict's...M&Co  
New Speller...H&N  
Gem Spelling Blanks PL&Co  
De Vere's Grammar...H&N  
Student's...SF&Co  
Normal Course...SB&Co  
Sheldon's Word Studies S&Co  
Patterson's Com. School Speller...H&N  
Practical Spelling...P.T.B.Co.  
Holmes' Elementary...UPCo  
Hansell's Primary...H&N  
Pollard Speller...WPH  
Columbian...WSBCo  
Seventy Lessons...W&R  
Classic Speller, 2 Nos. PPCo  
Student's Standard Speller...H&N  
School Records.  
Smith's Register...H&N  
Translations.  
Literal of the Classics DMcK  
Interlinear of...H&N  
Classical Library...H&Bros  
Handy (75 vols.)...H&N  
Writing.  
Standard Vertical...CS&Co  
Popular System...H&N  
Shaylor's System...G&Co  
Smith's System...HSCo  
Merrill's...MM&Co  
Normal System...SB&Co  
Zoology.  
Burnet's...ABCo  
Holder's Elementary...H&N  
Morse's First Book in...H&N  
Steele's Series...H&N  
Johannot's Series...S&Co  
Nicholson's Manual...DA&Co  
Beddard's...LG&Co

**ABBREVIATIONS.**  
American Book Co...ABCo  
Appleton & Co., D...DA&Co  
Concordia Pub. Co...CPCo  
Central Sch. Sup. H...CSSH  
Charles Scribner's Sons...CSS  
Ellsworth Co., The...ECo  
Ginn & Co...G&Co  
Harper & Brothers...H&Bros  
Hinds & Noble...H&N  
Houghton, Mifflin & Co...H&MCo  
Irish, Frank V...FV  
Krone Bros...KBros  
King, Richardson & Co...KR&Co  
Longmans, Green & Co...LG&Co  
Maynard, Merrill & Co...MM&Co  
Merriam, G & C Co...G&CMCo  
Morris Co., The...TMCo  
Macmillan Co...MacCo  
Pitman & Sons, Isaac...IP&Sons  
Potter & Putnam Co...PPCo  
Prac. Text Book Co...P.T.B.Co  
Prang Educational Co...P&C  
Powers, O. M...OMP  
R L Meyers & Co...M&Co  
Sanborn & Co., B. H. BH&S&Co  
Sheldon & Co...S&Co  
Silver, Burdett & Co. SB&Co  
Smith Pub. Co., H. P...H&P  
Scott, Foresman & Co. SF&Co  
Sower Co., Christopher CS&Co  
Thompson, Brown & Co...TB&Co  
University Pub. Co...UPCo  
Western Pub. House...WPH  
Williams & Rogers...W&R  
Werner School Book Co...WSBCo  
Lothrop Publishing Co LP&Co

## School Supplies.

Steubenville, O. A purchase of school desks has been made from the Grand Rapids School Furniture Co. Salt Lake City, Utah. The board has resolved to purchase 400 Grand Rapids ball-bearing school desks. Newport, R. I. The board has examined the merits of the Grand Rapids ball-bearing desks, the Eclipse desks, the Columbia standard school desks and the Hancy desks. No award of contract has as yet been made. Columbus, O. The board has contracted for 500 desks manufactured by the Piqua School Furniture Co. Newport, Va. Contract for school desks awarded to Mr. M. H. Last. J. M. Olcott & Co. have received a large order for globes from San Francisco. The Manitowoc Seating Works' proposition on school desks was accepted by the school board of Orleans, Vt. The American School Furniture Co. were the successful bidders for furnishing school desks at Middlebury, Vt. The Grand Rapids School Furniture Works were awarded contract for furnishing school desks for the schools of Granville, N. Y. The Thomas Kane & Co. Works were awarded contract for furnishing school desks for the schools of Munson Station, Pa. The Piqua School Furniture Works were the successful bidders at Norwood, W. Va. The American School Furniture Co. secured an order for several hundred school desks at Germantown, Pa. The American School Furniture Co. secured a nice order for school desks at Seneca, S. C. The Grand Rapids School Furniture Works sold a nice bill of school desks to the Church of Assumption school, Brookline, Mass. Spring Valley, Minn. A Smith Premier typewriter has been purchased for the Central normal school. The J. M. Sauder Co., of Philadelphia, secured contracts for school desks at Asheville, N. C., and Marienville, Pa.

### The Bradley Card and Paper Cutters.

A line of card and paper cutters, which are not equalled anywhere at the present time, is now being manufactured by the Milton-Bradley Co., of Springfield, Mass. These cutters range all the way from the small size, serviceable for the amateur's work room, to those for the manufacturer's shop. The cutting blades run in sizes from six to twenty-four inches. The prices range from \$1.25 to \$25.



We produce an illustration, herewith, of the so-called "Studio" cutter, which contains a ten-inch blade and is well adapted for trimming photographic prints, card-board of medium thickness, etc. The price of this cutter is \$3.

This size, as well as the smaller sizes, of which there is an eight-inch blade cutter at \$2, and a six-inch cutter at \$1.25, are well adapted for school room use.

J. M. Olcott & Co. have furnished all general school supplies to the board of education, Tell City, Ind.

Onarga, Ill. A Smith Premier typewriter has been purchased for use for instruction purposes in the Grand Prairie seminary.

Washington, D. C. A remarkable charge has been made against the public school teachers here by the Business Men's Association. As in most cities, the teachers are enabled to get stationery and similar articles at wholesale rates. It is charged that they have gone into the stationery business, purchasing these articles in large quantities and making customers of their pupils, to whom, of course, they sell at the regular retail figures.

A doctor, speaking on the subject, "Cleanliness: School Furniture," said: "One of the best means of keeping a school room clean is by disinfection. The walks, floors, desks, etc., of the school room should be frequently scrubbed. Then the child should be forced to keep itself and its clothing clean. The problem of having children come to school in a cleanly condition is a serious one. It is claimed that three-fourths of the tenement population of Boston have no facilities for bathing. The school house must meet this problem, and already in some schools baths have been established with good results. The school books must be kept clean. Experiments have shown that they are often perfect hot-beds of bacteria, many of which are in the highest degree injurious to the child. Such books, as well as clothing, should be disinfected by powerful disinfectants. Hooks and racks for clothing ought not to be placed in the school room, and the use of feather dusters should be prohibited."

John A. Walker, vice-president of the Joseph Dixon Crucible Co., is at present traveling in Europe. He is an observant as well as thoughtful man, as may be judged by an extract from one of his recent letters: "To visit and study the ten great cities of the world—New York, London, Paris, Brussels, Amsterdam, Berlin, Dresden, Vienna, Zurich and Milan—gives an education different from that obtained from professors and text books. In those ten cities of renown dwell sixteen million people not only, but the pick, the talent of the human race. These ten places manage our globe. To walk their streets, see their architecture, talk with their people, visit their stores, their hotels, their libraries, their museums, their parks, their places of amusement, is to see the best of the human family, at work, at play, at rest."

J. M. Olcott & Co. have received a large order for school supplies from the board of education of Sheldon, Iowa.

Pueblo, Colo. Two Smith Premier typewriters have been purchased for use in the Cleveland high school.

Miss Anna M. Thurston, manager of the Thurston Teachers' Agency of Chicago, has had a number of years' experience in placing teachers. She has now a most successful agency—having placed a number of school people into responsible positions.

Adrian, Mich. The state industrial school has purchased a Smith Premier typewriter for instruction purposes.

Fort Collins, Colo. The state agricultural college has purchased a Smith Premier typewriter to be used for instruction purposes.

Laramie, Wyoming. A Smith Premier typewriter has been sold to the University of Wyoming to be used for instruction purposes.

Wheeling, W. Va. The board of education has purchased a Smith Premier typewriter for use in the public schools.

The telephoto attachment does for the camera what the telescope does for the eye. It photographs mountains thirty miles distant as though the camera were within a few hundred yards of them. Dwight L. Elmendorf has used this attachment for years most successfully, and he will write about it and illustrate it with his own pictures in the October Scribner.

The J. M. Sauder Co., of Philadelphia, secured contracts for school desks at Asheville, N. C., and Marienville, Pa.

Louisville, Ky. Salaries paid night school principals, \$2.50 per night; school teachers, \$1.50 per night.

Chicopee, Mass. Four evening schools were maintained last winter and thirty-one teachers employed.

## COFFEE HEART.

Many People Think They Have Heart Disease.

"My husband and I used to drink Mocha and Java coffee at forty cents a pound. We made it strong and always had it for breakfast; sometimes in cold weather for luncheon and dinner. A form of heart disease came on to both of us. Husband complained of his heart missing a beat sometimes and that he could not sleep after drinking coffee for the six o'clock dinner. I had pains at the heart, and very peculiar smothering sensations, frequently accompanied with sick headache. My physician forbid the use of coffee, and we were put on Postum Food Coffee, with the result that both husband and myself have fully regained our health and our hearts are all right and perfect now.

"I have reached such perfection in making Postum that husband cannot tell either by look or taste whether he is drinking fine coffee or Postum, and he is a connoisseur in coffee. We drink Postum two or three times a day and it never fails on our taste.

"A good many people make Postum in a very slipshod manner; that is, they dash a little into the coffee pot and let it bubble up a little while and serve it, but that makes the flattest kind of a drink. On the contrary, when four heaping teaspoons to the pint of water are used and the Postum allowed to boil fully fifteen minutes after the boiling begins (not counting after it is put on the stove, but after the real boiling begins), then one obtains a beverage that is worth while.

"I have no objections to your using my name." Mrs. J. M. Courtright, 800 Third street, S. Minneapolis, Minn. Postum is sold by all first-class grocers.



# DIRECTORY SCHOOL SUPPLY AND EQUIPMENT DEALERS

This directory has been prepared for the convenience of Secretaries, Boards of Education and school officials who contemplate the erection of school houses and the purchase of School Furniture, Supplies and Equipment. The names of reliable firms only are listed. Write them for estimates and other information.

**Apparatus.**  
McIntosh Battery & Optical Co., Chicago.  
L. E. Knott Apparatus Co., Boston.  
Educational Ass'n., Chicago.  
Standard School Fur. Co., Chicago.  
E. W. A. Rowles, Chicago.  
Central Sch'l Supply House, Chicago.  
E. G. Dann & Co., Chicago.  
Chicago Lab. Sup. & Scale Co., Chicago.  
A. H. Andrews Co., Chicago.  
Franklin Educational Co., Boston.  
School & Office Supply Co., Boston.  
L. A. Murray, Grand Rapids, Mich.  
L. A. Murray, Kilbourn, Wis.  
E. H. Sargent & Co., Chicago.  
E. G. Smith, Columbia, Pa.  
Chas. W. Holbrook, Windsor Locks, Conn.

**Artificial Slate.**  
Standard School Fur. Co., Chicago.  
Central School Supply House, Chicago.  
School & Office Supply Co., Chicago.  
L. A. Murray, Grand Rapids, Mich.  
L. A. Murray, Kilbourn, Wis.  
American School Furniture Co., New York, Chicago.  
Grand Rapids School Furniture Co., New York, Chicago.  
Thos. Kane & Co. Works, New York, Chicago.  
Cleveland School Furniture Works, New York, Chicago.  
Chandler Adjustable Chair & Desk Works, Boston.

**Bells.**  
Meneely Bell Co., Troy, N. Y.  
McShane Bell Foundry Baltimore, Md.  
Central Sch'l Supply House, Chicago.  
Peckham, Little & Co., New York City.  
Standard School Fur. Co., Chicago.  
E. W. A. Rowles, Chicago.  
E. G. Dann & Co., Chicago.  
A. H. Andrews Co., Chicago.  
J. M. Olcott & Co., New York-Chicago.  
School & Office Supply Co., Chicago.  
L. A. Murray, Grand Rapids, Mich.  
L. A. Murray, Kilbourn, Wis.  
J. L. Hammett Co., Boston-New York.  
St. Louis Bell Foundry, St. Louis, Mo.

**Black Boards.**  
J. M. Olcott & Co., New York-Chicago.  
Educational Ass'n., Chicago.  
Standard School Fur. Co., Chicago.  
Central Sch'l Supply House, Chicago.  
E. G. Dann & Co., Chicago.  
E. W. A. Rowles, Chicago.  
The Caxton Co., Chicago.  
A. H. Andrews Co., Chicago.  
School & Office Supply Co., Chicago.  
L. A. Murray, Grand Rapids, Mich.  
L. A. Murray, Kilbourn, Wis.  
J. L. Hammett Co., Boston-New York.  
St. Louis Bell Foundry, St. Louis, Mo.

**Blinds.**  
Central Sch'l Supply House, Chicago.  
Standard School Fur. Co., Chicago.  
E. W. A. Rowles, Chicago.  
A. H. Andrews Co., Chicago.  
L. A. Murray, Kilbourn, Wis.  
Peckham, Little & Co., New York.  
Bunde & Upmeyer, Milwaukee.  
Central Sch'l Supply House, Chicago.  
Holden Book Cover Co., Springfield, Mass.  
Commencement Stationery, Peckham, Little & Co., New York.  
J. M. Olcott & Co., New York-Chicago.  
Central School Supply House, Chicago.  
Standard Sch'l Furn. Co., Chicago.  
E. A. W. Rowles, Chicago.  
E. G. Dann & Co., Chicago.  
The Caxton Co., Chicago.  
J. L. Hammett Co., Boston-New York.  
Sterling School Supply Co., Mt. Sterling, O.

**Book Covers.**  
Holden Book Cover Co., Springfield, Mass.  
Commencement Stationery, Peckham, Little & Co., New York.  
J. M. Olcott & Co., New York-Chicago.  
Central School Supply House, Chicago.  
Standard Sch'l Furn. Co., Chicago.  
E. A. W. Rowles, Chicago.  
E. G. Dann & Co., Chicago.  
The Caxton Co., Chicago.  
J. L. Hammett Co., Boston-New York.  
Sterling School Supply Co., Mt. Sterling, O.

**Crayon.**  
American School Furniture Co., New York, Chicago.  
Grand Rapids School Furniture Co., New York, Chicago.  
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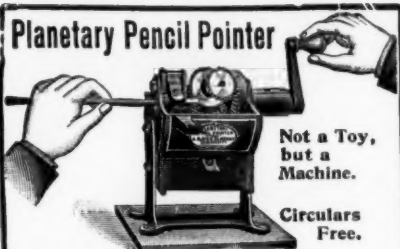
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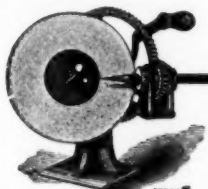
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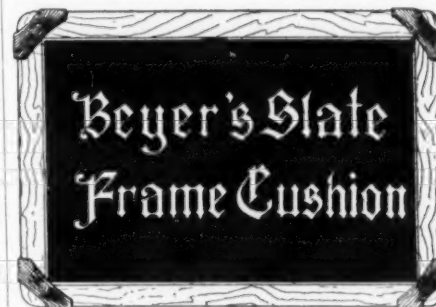
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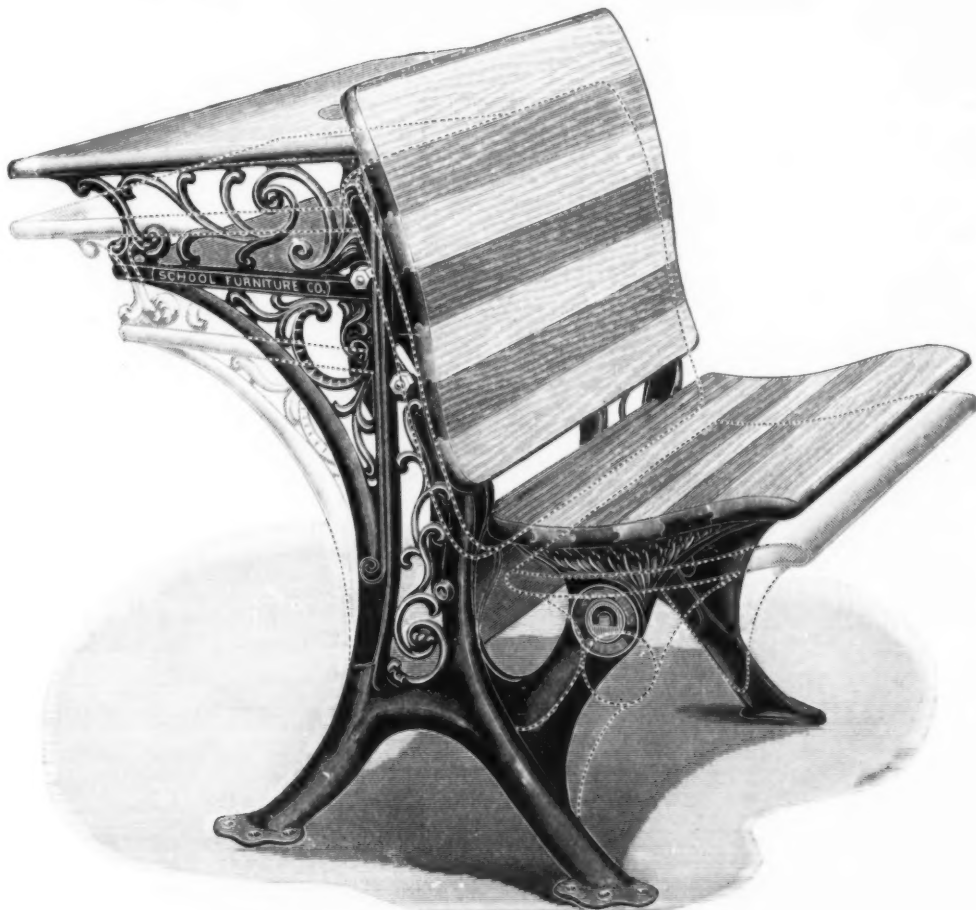
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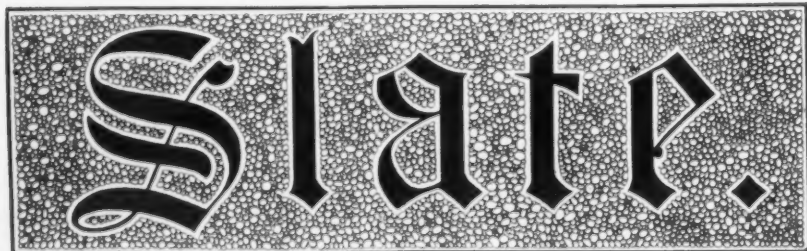
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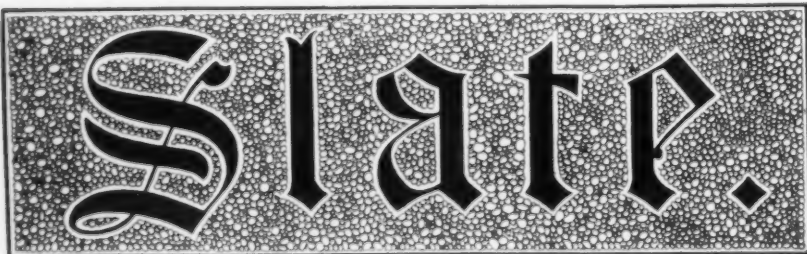
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